

MONITOR WITH DVD RECEIVER

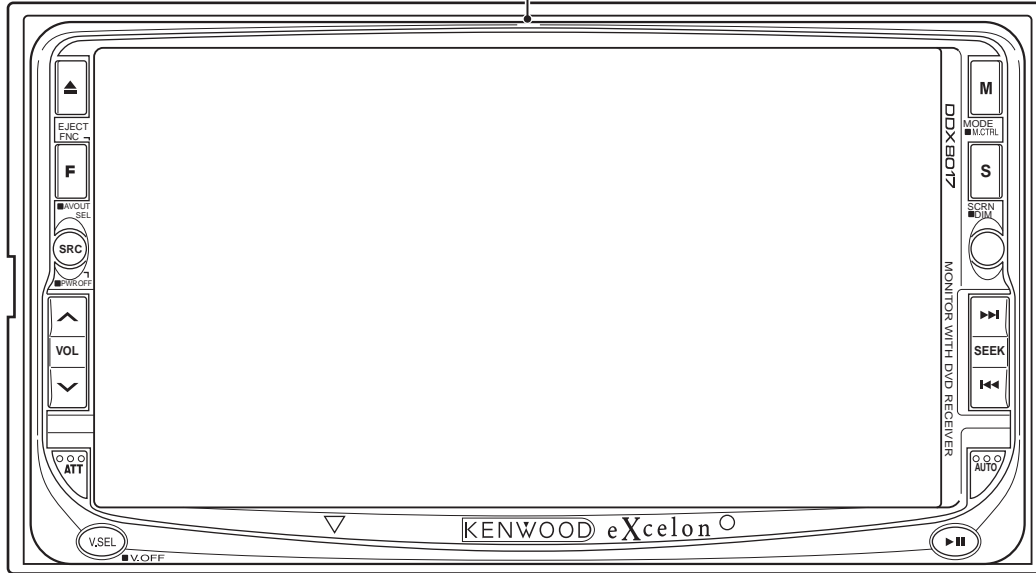
# DDX8017/8037 DDX8027/8027Y DDX8047/8067 SERVICE MANUAL

# KENWOOD

Kenwood Corporation

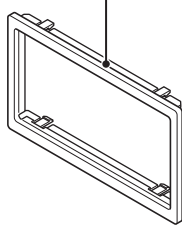
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B53-0316-00 (N) 1703

Panel assy  
(A64-3576-01): DDX8017, (A64-3578-01): DDX8037  
(A64-3577-01): DDX8027/8027Y  
(A64-3579-01): DDX8047, (A64-3580-01): DDX8067

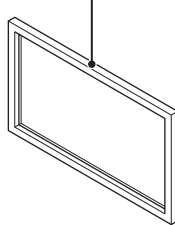


Illustrations is DDX8017

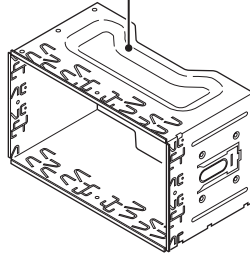
Escutcheon  
(B07-3105-02)



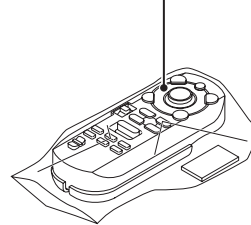
Escutcheon  
(B07-3046-04)



Mounting hardware assy  
(J22-0171-03)



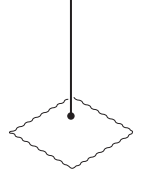
Remote controller  
(A70-2072-05 : RC-DV601)



Size AAA battery  
Not supplied

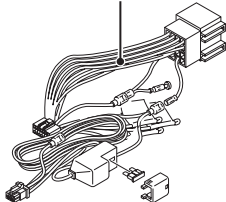


Cleaning cloth  
(W01-1620-05)

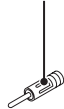


DDX8027/8027Y only

DC cord  
(E30-6477-15)

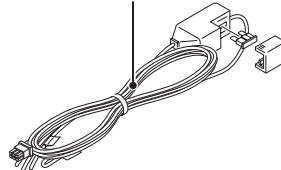


Antenna adaptor  
(T90-0552-05)

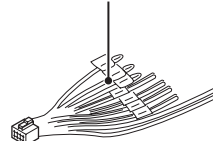


DDX8017/8037/8047/8067 only

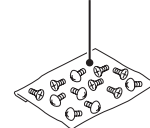
DC cord  
(E30-6475-15)



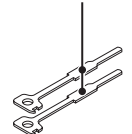
DC cord  
(E30-6478-05)



Screw set  
(N99-1776-05)



Lever  
(D10-4674-04) x2

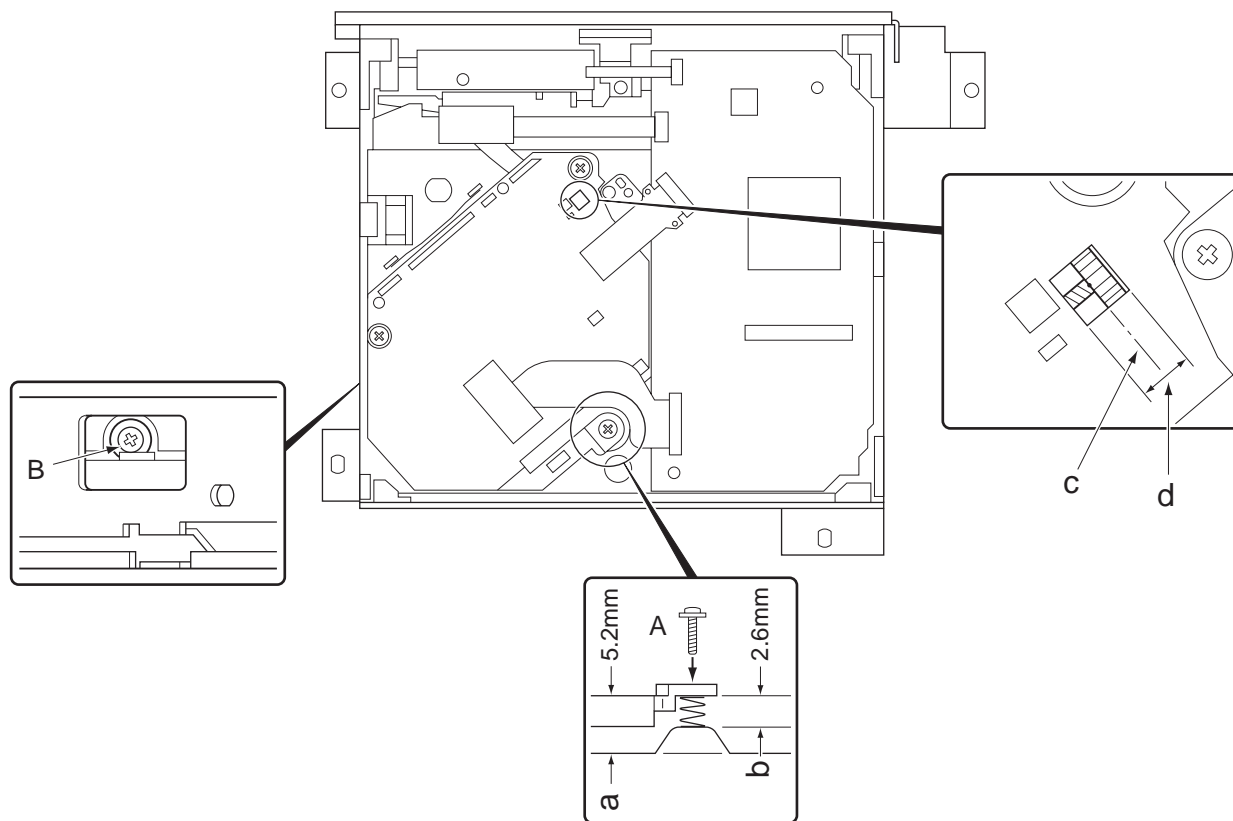


This product uses Lead Free solder.



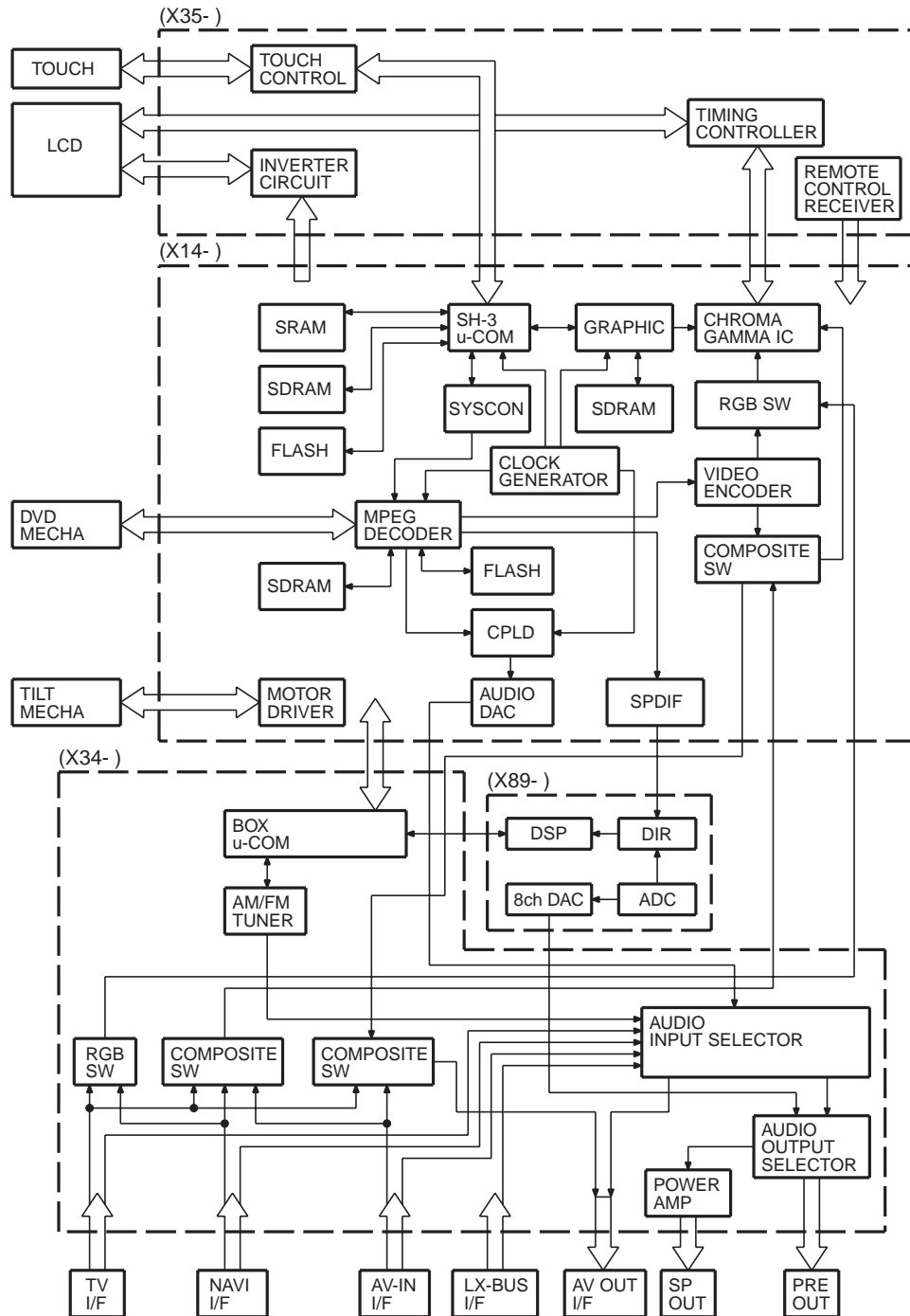
## NOTES ON ASSEMBLING THE MECHANISM

1. Fasten Screw A so that the interval (a) will be about 5.2mm and the interval (b) will be about 2.6mm. (The interval (a) can be measured using a pair of vernier calipers or similar tools.)
2. Turn B so that Position (c) will come at about the center of interval (d).
3. Then, play the test disc and fine tune A or B so that the jitter value would be minimized.



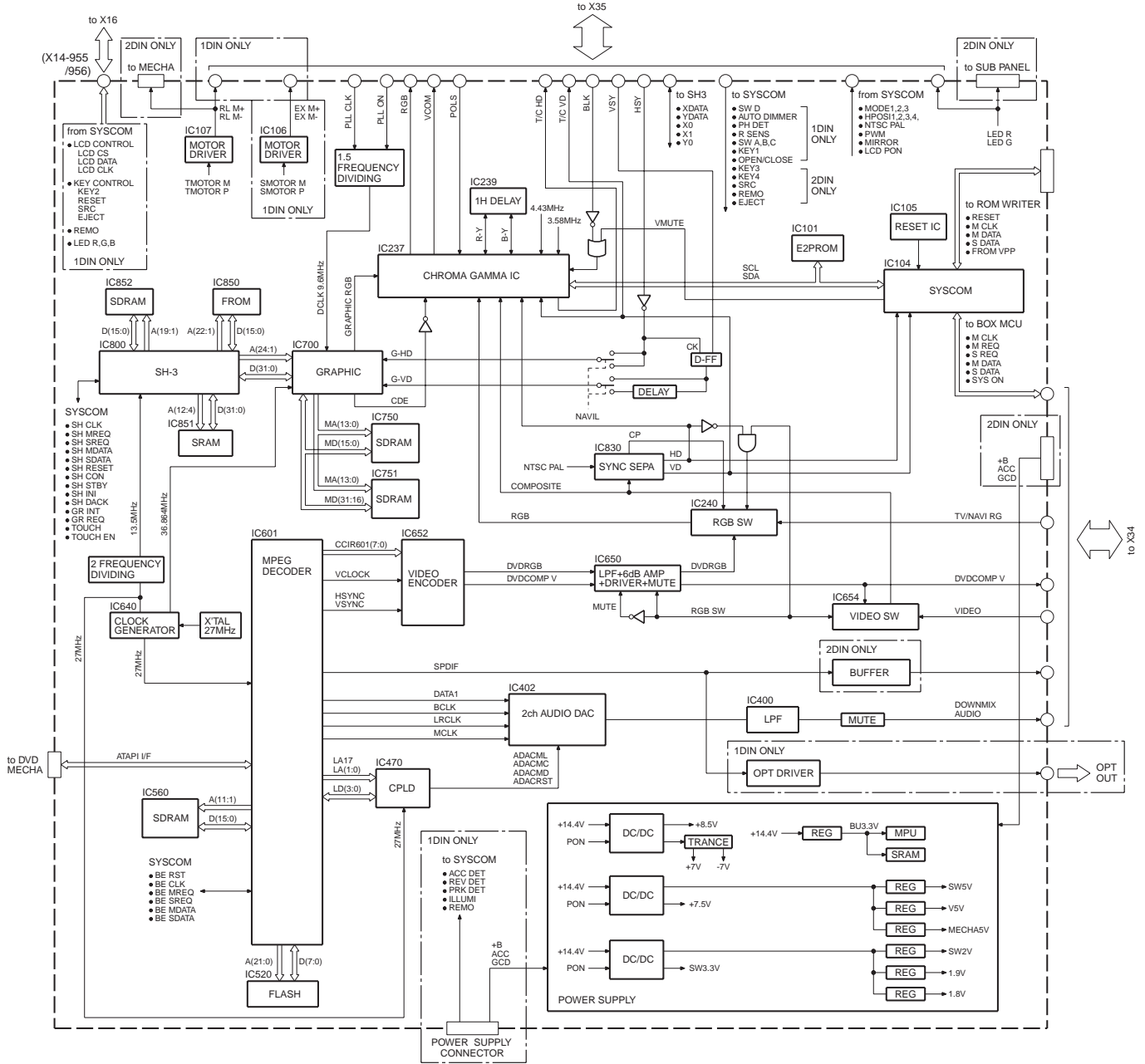
# BLOCK DIAGRAM

● Complete view



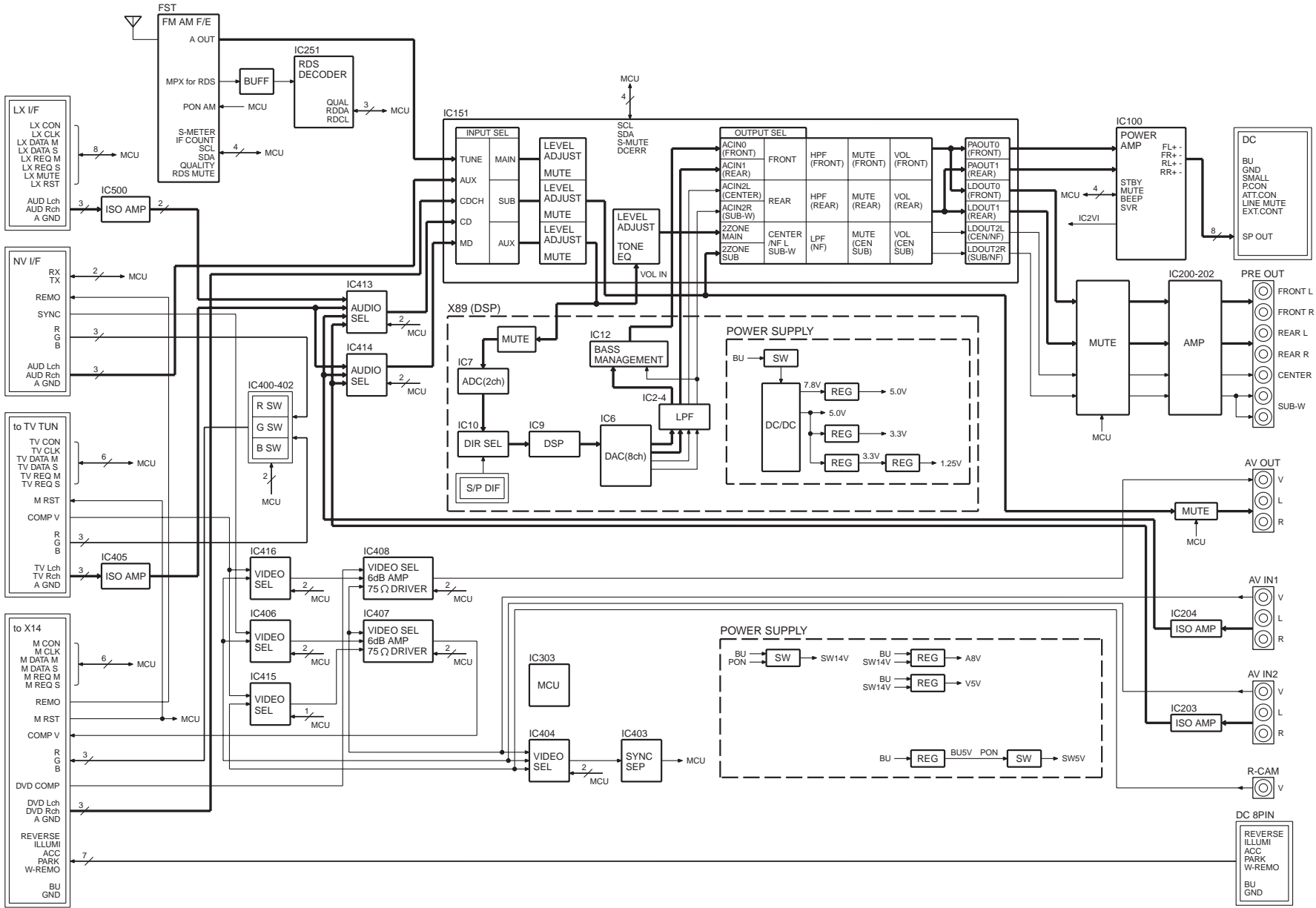
# BLOCK DIAGRAM

● X14-955/956



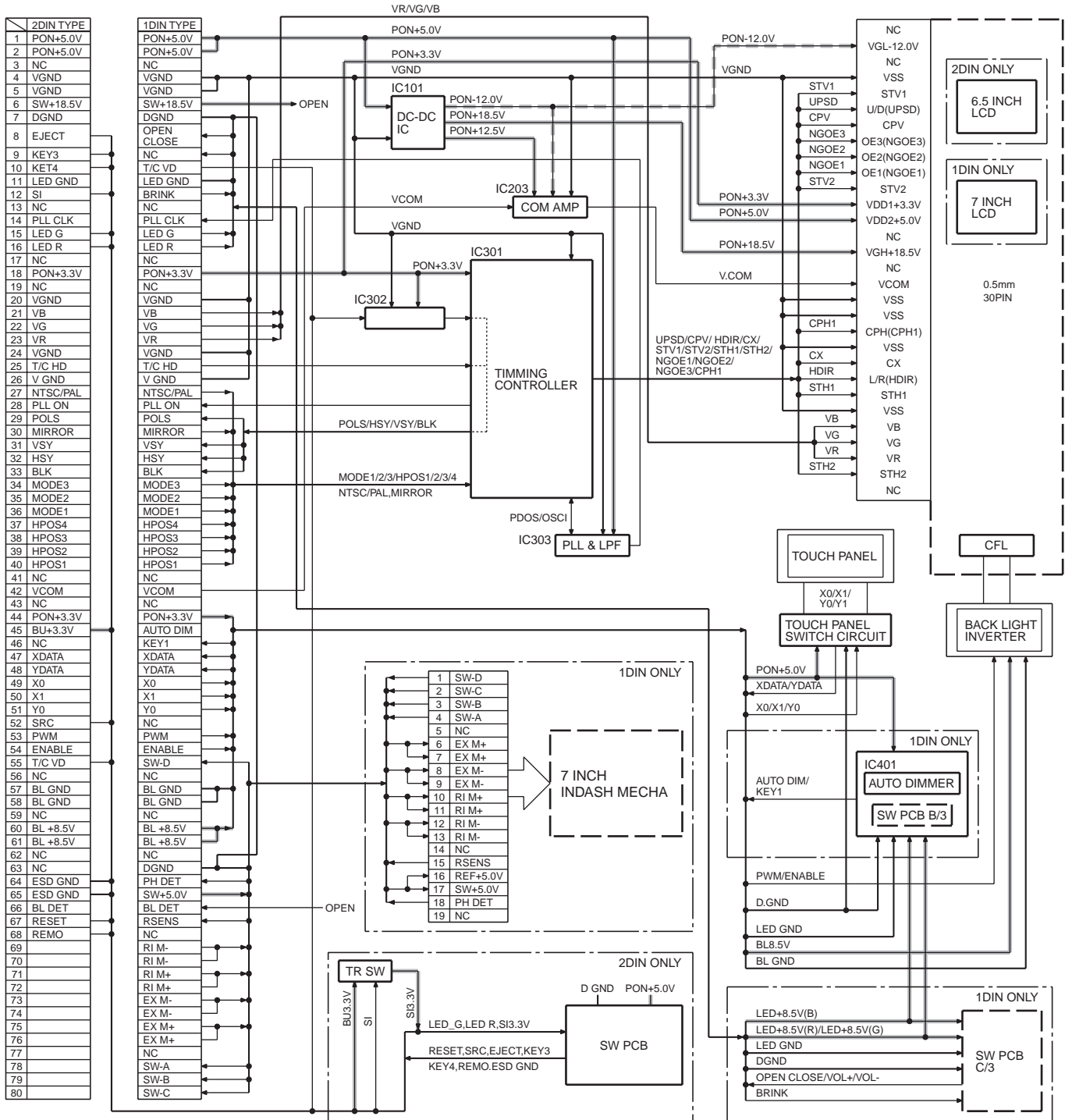
BLOCK DIAGRAM

X34-382/383



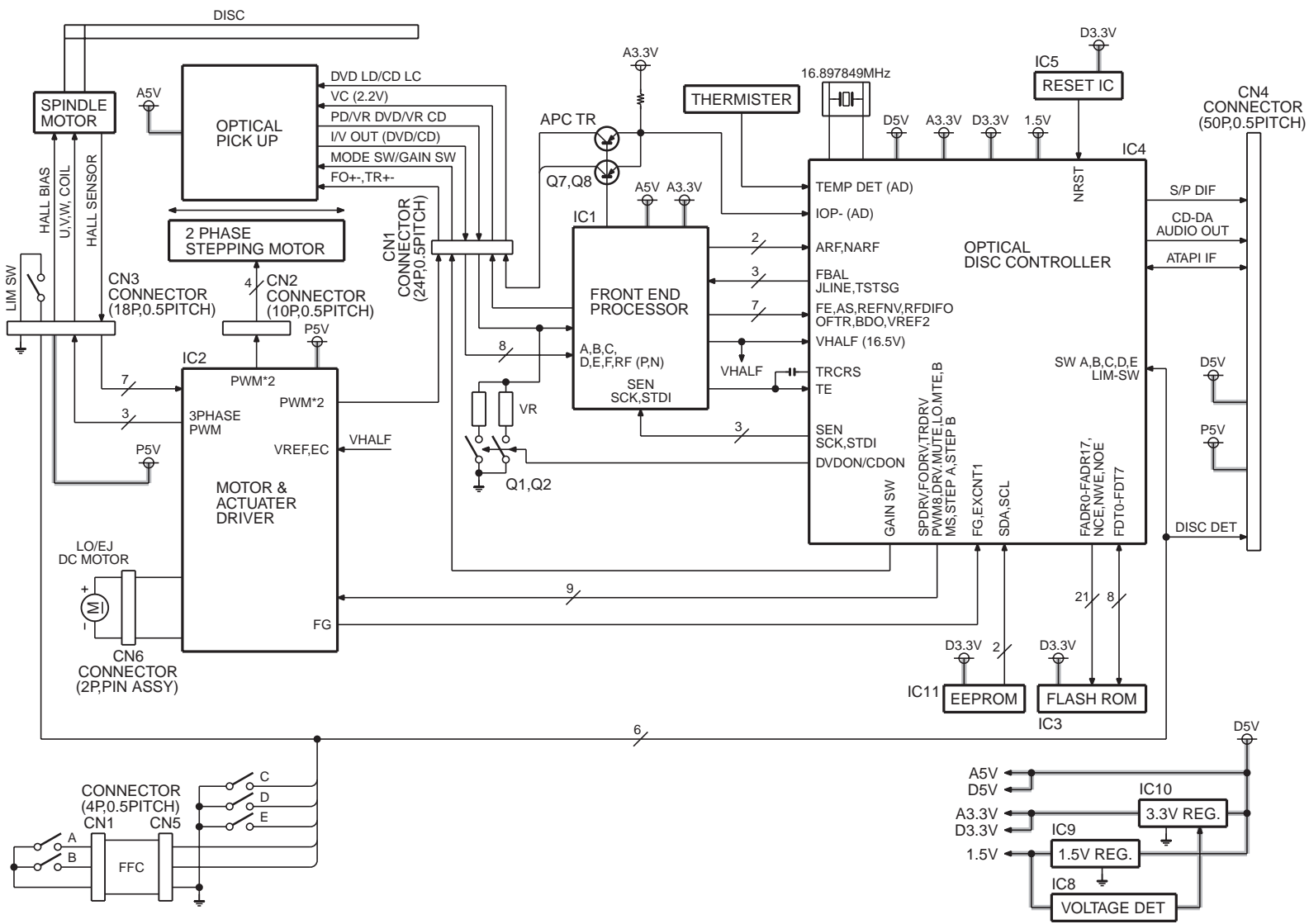
# BLOCK DIAGRAM

● X35-458/459



# BLOCK DIAGRAM

● X37-107 (DVD mechanism)



## COMPONENTS DESCRIPTION

### ● VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	DC-DC power supply IC	For controlling BL8.5V and $\pm 7V$
IC2	DC-DC power supply IC	For controlling SW6.5V and MECHA7.5V
IC3	DC-DC power supply IC	For controlling SW3.3V and SW2.5V
IC9	Regulator IC	2V generation for IC601
IC80	Regulator IC	Backup 3.3V generation
IC81	Regulator IC	SW5V generation
IC82	Regulator IC	V3.3V generation
IC101	E2PROM	Memory for $\mu$ -com
IC103	Logic IC (AND)	AND for remote controller and wired remote controller
IC104	$\mu$ -com IC	For controlling the main unit
IC105	Resetting IC	For resetting $\mu$ -com
IC107	Motor driver IC	Tilted control of tilting mechanism
IC108	Logic IC (AND*4)	3.3V $\rightarrow$ 5V conversion
IC237	Signal processing IC for driving color liquid crystal panel	RGB signal generation for liquid crystal
IC238	Logic IC (Inverter)	For blank signal reversal coming from X35
IC239	Color differentiation signal 1H-DELAY	For delaying 1H color differential signals when PAL
IC240	RGB switch	For switching RGB signals coming from DVD signal and X34
IC400	Ope amp IC	For audio LPF
IC401	Regulator IC	5V generation for audio
IC402	Audio DAC	For converting digital signals into analog signals
IC403	Logic IC (Inverter)	SPDIF driver
IC470	CPLD	Audio DAC control
IC500	Regulator	5V generation for DVD mechanism
IC520	FLASH ROM	For MPEG decoder control program
IC560	SDRAM	RAM for temporary storage of decoded signal
IC601	MPEG decoder	IC for decoding MPEG encoded signal
IC640	Clock generator	27M, 36.864MHz clock generation
IC641	Logic IC (D-FF)	13.5MHz is generated by frequency dividing from 27MHz
IC650	LPF and Driving IC for video signal	For RGB and composite signals of DVD
IC651	Regulator	V5V generation
IC652	Video encoder	Conversion of digital video signals into analog signals
IC654	Video switch	For switching DVD composite signal and composite signal from X34
IC700	GRITT IC	Graphic signal generation
IC701	Regulator	IC700 1.8V generation
IC750,751	SDRAM	GRITT-IC storage RAM
IC770	Logic IC (NOR)	GRITT-IC video clock frequency dividing
IC771	Logic IC (D-FF*4)	GRITT-IC video clock frequency dividing
IC772	Logic IC (Inverter)	GRITT-IC video clock frequency dividing



## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC773	Logic IC (AND)	GRITT-IC video clock frequency dividing
IC774	Logic IC (OR)	GRITT-IC video clock frequency dividing
IC779	Logic IC (NAND)	GRITT-IC video clock frequency dividing
IC781	Logic IC (Inverter)	For reversing switching used for graphic signal and other signals
IC800	SH-3 $\mu$ -com	For GRITT-IC control
IC801	Regulator	IC800 1.9V generation
IC830	PLL built-in synchronization separation IC	HD/VD generation from composite signal by synchronization separation
IC831	Logic IC (Inverter)	For reversing GRITT-IC HD
IC832	Logic IC (D-FF)	For GRITT-IC VD generation when using NAVI
IC833	Logic IC (D-FF)	VD generation for $\mu$ -com input
IC834	Logic IC (Inverter*3)	For reversing IC830 output HD
IC835	Logic IC (Data selector*4)	For HD/VD selection for GRITT-IC (NAVI or otherwise)
IC836	Logic IC (AND)	VD buffer for IC237/timing control
IC850	FLASH ROM	For SH-3 $\mu$ -com program
IC851	SRAM	SH-3 $\mu$ -com RAM
IC852	SDRAM	SH-3 $\mu$ -com RAM
IC853	Logic IC (AND)	For SRAM control
IC854	Logic IC (BUS SWITCH)	SRAM control
IC855	Logic IC (Inverter)	SRAM control
Q1	Small signal NPN transistor	For ACC detection
Q2	PNP digital transistor	For PARK detection
Q3	NPN digital transistor	For SW 14.4V control
Q4	Small signal NPN transistor	For DC-DC external oscillation frequency input clamp
Q5	Small signal PNP transistor	For temperature compensation of DC-DC external oscillation frequency input clamp
Q6	FET	For SW 14.4V control
Q7	PNP transistor for medium power amplification	For fan power supply 12.8V generation
Q8	Small signal NPN transistor	For fan power supply 12.8V generation
Q9	NPN digital transistor	For DC-DC oscillation frequency switching
Q10	Small signal PNP transistor	For fan power supply 12.8V generation
Q11	Small signal NPN transistor	For fan power supply 12.8V generation
Q13	FET	For BL8.5V and $\pm 7V$ generation
Q16	NPN digital transistor	For DC-DC oscillation frequency switching
Q19	FET	For SW6.5V/MECHA7.5V generation
Q20	NPN digital transistor	For DC-DC oscillation frequency switching
Q22	FET	For SW3.3V/SW2.5V generation
Q23	NPN digital transistor	For REF voltage impulse at the time of DC-DC external oscillation frequency input stoppage
Q24	Small signal NPN transistor	For DC-DC external oscillation frequency input clamp
Q25	PNP digital transistor	For REF voltage impulse at the time of DC-DC external oscillation frequency input stoppage
Q26	Small signal NPN transistor	For DC-DC external oscillation frequency input clamp
Q27	PNP digital transistor	For REF voltage impulse at the time of DC-DC external oscillation frequency input stoppage

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q80	NPN digital transistor	For reduced/excess current detection circuit
Q81	Small signal NPN transistor	For reduced/excess current detection circuit
Q82	Small signal PNP transistor	For reduced/excess current detection circuit
Q83	Small signal NPN transistor	For reduced/excess current detection circuit
Q84	PNP digital transistor	For reduced/excess current detection circuit
Q85	Small signal NPN transistor	For reduced/excess current detection circuit
Q86	Small signal PNP transistor	For reduced/excess current detection circuit
Q87	PNP digital transistor	For reduced/excess current detection circuit
Q88	PNP transistor for low-frequency power amplification	8.5V regulation circuit for BU3.3V
Q89-91	Small signal NPN transistor	8.5V regulation circuit for BU3.3V
Q92	Small signal PNP transistor	8.5V regulation circuit for BU3.3V
Q93	NPN digital transistor	For reduced/excess current detection circuit
Q94	PNP digital transistor	For SW14.4V control
Q95	NPN transistor for low-frequency general amplification*2	For SW14.4V control
Q103	NPN digital transistor	For GREEN_LED control
Q104	PNP digital transistor	For GREEN_LED control
Q105	NPN digital transistor	For RED_LED control
Q106	PNP digital transistor	For RED_LED control
Q107	PNP digital transistor	For resetting
Q108	NPN digital transistor	For resetting
Q109	Small signal PNP transistor	For switching $\mu$ -com AD conversion reference voltage BU3.3V/SW3.3V
Q110	NPN digital transistor	For switching $\mu$ -com AD conversion reference voltage BU3.3V/SW3.3V
Q111	Small signal PNP transistor	For switching $\mu$ -com AD conversion reference voltage BU3.3V/SW3.3V
Q112,113	Small signal NPN transistor	For switching $\mu$ -com AD conversion reference voltage BU3.3V/SW3.3V
Q114	PNP digital transistor	For resetting
Q115	NPN digital transistor	For setting to OV until setting is completed, immediately after resetting $\mu$ -com 20 pin
Q171	Small signal PNP transistor	$\mu$ -com input voltage 5V $\rightarrow$ 3.3V conversion
Q173	Small signal NPN transistor	$\mu$ -com input voltage 5V $\rightarrow$ 3.3V conversion
Q230	Small signal NPN transistor	For input video signal clamp to IC237
Q231	Small signal NPN transistor	For brightness signal input buffer to IC237
Q232	Small signal PNP transistor	For color signal input buffer to IC237
Q233	NPN digital transistor	For IC240 switching control
Q234	Small signal PNP transistor	For switching at the time of chroma trap PAL
Q236	Small signal NPN transistor	For IC237 3V generation
Q237	Small signal PNP transistor	For IC237 3V generation
Q238,239	Small signal NPN transistor	For IC237 7.5V generation (7.5V fluctuates a little.)
Q240	Small signal PNP transistor	For IC237 7.5V generation (7.5V fluctuates a little.)
Q400,401	Small signal NPN transistor	For audio signal muting

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q402	Small signal NPN transistor	For audio signal muting control
Q403	NPN digital transistor	For audio signal muting control
Q404,405	PNP digital transistor	For audio signal muting control
Q650	PNP digital transistor	Resetting 3.3V → 5V conversion for IC652
Q651	NPN digital transistor	Resetting 3.3V → 5V conversion for IC652
Q652	NPN digital transistor	For reversing RGB_SW
Q653	NPN digital transistor	For DVD composite muting
Q700	Small signal PNP transistor	For GRITT-IC video signal reference voltage generation
Q701	Small signal NPN transistor	For GRITT-IC video signal reference voltage generation
Q771,772	Small signal NPN transistor	For GRITT-IC video clock amp
Q830	PNP digital transistor	NT/PAL control 3.3V → 5V conversion for IC830
Q831	NPN digital transistor	NT/PAL control 3.3V → 5V conversion for IC830
Q901	NPN digital transistor	For ILLUMI detection
Q902	NPN digital transistor	For REVERSE detection

### ● ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC50	3-terminal regulator IC	8.4V for audio is generated from BU14V
IC52	Power supply conversion IC	±9.0V for 5V pre-out is generated from BU14V
IC54	3-terminal regulator IC	5V for video is generated from BU14V
IC100	Power IC	Power amplifier for speaker output
IC150	Operational amplifier	Audio mid-point electrical potential 3.3V, SVR voltage 6.8V buffer
IC151	Electrical volume and Selector IC	Audio volume control, audio signal selection
IC200	Operational amplifier	For 5V pre-out audio signal amplification (Front)
IC201	Operational amplifier	For 5V pre-out audio signal amplification (Rear)
IC202	Operational amplifier	For 5V pre-out audio signal amplification (Sub-woofer)
IC203	Isolation amplifier IC	For audio signal GND isolation (AVIN2)
IC204	Isolation amplifier IC	For audio signal GND isolation (AVIN1)
IC251	RDS decoder IC	For RDS signal processing and demodulation
IC300	Voltage detector	For μ-com resetting voltage monitoring
IC301	Logic IC (NOR)	Muting control for audio
IC303	Audio microcomputer	For X34 board control
IC400	Video switch	For video signal selection (R)
IC401	Video switch	For video signal selection (G)
IC402	Video switch	For video signal selection (B)
IC403	Synchronization separation IC	For NT/PAL recognition, AVIN/Rear camera auto detection
IC404	Video switch	Video signal selection (Synchronization separation)
IC405	Isolation amplifier IC	For audio signal GND isolation (TV)
IC406,407	Video switch	Video signal selection (For monitoring main unit)
IC408	Video switch	Video signal selection (For AVOUT)

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC413	Logic IC (Multiplexer)	For audio signal selection (For MAIN source)
IC414	Logic IC (Multiplexer)	For audio signal selection (For 2-ZONE sources)
IC415	Video switch	Video signal selection (For monitoring main unit)
IC416	Video switch	Video signal selection (For AVOUT)
IC500	Isolation amplifier IC	For audio signal GND isolation (LX)
IC501	Logic IC (Inverter)	For reversing resetting signal
IC502	Logic IC (Buffer)	Buffer for remote control signal for NAVI
Q6	ANT-CONT SW	Comes on when TUNER source is selected
Q7	P-CONT SW	Goes OFF when STANDBY source is selected
Q8~10	For P-CONT circuit control	Controlling P-CONT circuit
Q11	For P-CONT circuit control	Controlling P-CONT circuit
Q12	BU detection SW	Comes ON power supply voltage is about 8.8V or more
Q13	For EXT-AMP control	Control of external amplifier
Q14	For surge voltage detection	Comes ON when Q15 is ON
Q15	For surge voltage detection	Comes ON when power supply voltage is about 20V or more
Q50	For ±9V power supply	Comes ON when Q51 is ON
Q51	For ±9V power supply	Comes ON when SW14V is ON
Q52	SW14V power supply SW	Comes on at P-ON
Q54	For BU5V power supply	
Q55	A8V oversupply SW	Comes ON when SW14V is ON
Q58	For BU5V power supply	
Q59	A8V power supply	BU14V → 8V for audio is supplied
Q61	V5V power supply SW	Comes ON when SW14V is ON
Q62	SW5V power supply SW	Comes ON at P-ON
Q63	For SW5V power supply	BU5V → SW5V is supplied
Q64	For V5V power supply	BU14V → 5V for video is supplied
Q65~70	For ±9V power supply	
Q150	SVR6.8V, audio 3.3V, IC150 power supply SW	Comes ON when SW14V is ON
Q151	For SVR voltage reduction control	Electric current control of SVR voltage reduction circuit
Q152	SVR6.8V, audio 3.3V, IC150 power supply	Power supply to IC150, voltage supply to Q151
Q200	For audio muting	Audio muting of pre-out front right channel
Q201	For audio muting	Audio muting of pre-out front left channel
Q202	For audio muting	Audio muting of pre-out rear left channel
Q203	For audio muting	Muting at momentary power down, resetting, and audio mute timing
Q204	For audio muting	Audio muting of pre-out rear right channel
Q205	For audio muting	Audio muting of pre-out center channel
Q206	For audio muting	Audio muting of pre-out sub-woofer channel
Q207	For audio muting	Audio muting of AVOUT right channel
Q208	For audio muting	Muting at momentary power down, resetting, and audio mute timing

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q209	For audio muting	Audio muting of AVOUT left channel
Q250	AM power supply SW	Comes ON when AM source is selected
Q252	For AM power supply	Audio 8V is supplied when AM source is selected
Q403,404	SW for audio selector control	Converts IC413 $\mu$ -com controlled terminal voltage: 5V $\rightarrow$ 8V
Q405,406	SW for audio selector control	Converts IC414 $\mu$ -com controlled terminal voltage: 5V $\rightarrow$ 8V
Q500	For reversing resetting signal voltage	Reverses signal in order to obtain resetting signal for TV tuner
Q800	MUTE 0 terminal control SW	MUTE 0 audio muting control

### ● VIDEO UNIT (X35-458/459x-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Inverter control IC	Control and drive of inverter circuit for backlight
IC101	DC/DC converter IC	$\pm$ 12V power supply for VCOM amp, -12.0V/+18.5V LCD power supply
IC203	VCOM amp	VCOM signal amplification amp
IC300	Three states buffer	Start pulse switching SW
IC301	Timing controller IC	LCD module control
IC302	AND	V.SYNC delay buffer
IC303	PLL LPF	LPF for PLL control (VT voltage control)
IC601	Remote controller light receptor IC	Remote controller light receptor
Q1	Dimmer SW	ON/OFF control signal of PWM and put on dimmer on backlight
Q2,3	Inverter driver	Inverter circuit driving
Q5	5V AVR	5V power supply for inverter control IC
Q101	Switch	Switch for controlling DC/DC converter
Q102	Switch	Switch for controlling DC/DC converter
Q202,203	VCOM driver	VCOM signal buffer
Q300	Switch	For switching IC205
Q301	VCO	For PLL oscillation
Q302	Touch panel X1 SW	X1 SW: Comes on at panel touch detection or at X-axis input and impresses voltage
Q303	Touch panel Y1 SW	Y1 SW: Comes on at Y-axis input and impresses voltage
Q304	Touch panel X0 SW	X0 SW: Comes on at X-axis input and impresses voltage
Q305	Touch panel Y0 SW	Y0 SW: Comes on at Y-axis input and impresses voltage
Q306	Touch panel Y0/Y1 SW	Y0/Y1 SW: Comes on at Y-axis input and goes off at X-axis input
Q307,308	Buffer	For PLL clock
Q601,602	Switch	SI blinking switch
Q604,605	Switch	Hard resetting switch
Q701	Switch	DISC Illumination switch

### ● DAUGHTER UNIT (X89-274/279x-11)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC2	OP amp	For audio signal amplification (Center, Sub-woofer)
IC3	OP amp	For audio signal amplification (Rear)

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC4	OP amp	For audio signal amplification (Front)
IC5	3-terminal regulator	5V is output from 8V
IC6	Audio DAC	D/A conversion of audio signal (Front, Rear, Center, Sub-woofer)
IC7	A/D converter	A/D conversion of audio signal (Lch, Rch)
IC9	DSP	Processing of computing for Dolby 5.1ch, dts etc.
IC10	DIR	Conversion of S/PDIF format data to digital audio format
IC11	OP amp	For audio signal amplification (Front)
IC12	Analog switch	Switching audio signal (Sub-woofer) and A4V
IC18	Logic IC	Inverter for generating clock
IC19	3-terminal regulator	1.25V his output from 3.3V
IC20,21	3-terminal regulator	3.3V is output from 5V
IC300	DC/DC converter	For control of 5V and 7.8V
Q13	Digital transistor	Comes ON at the time of momentary power down, resetting, and in audio muting timing
Q14,15	Transistor for audio muting	Comes Mute at the time of momentary power down, resetting, and in audio muting timing
Q300,302	Digital transistor	Reference for voltage input at the time of DC-DC external oscillation frequency input stoppage
Q303	FET	For generation of 5V and 7.8V
Q306-310	Digital transistor	For Power ON control
Q312	FET	For SW14.4V generation
Q313	Transistor*2	For SW14.4V control

### ● DVD UNIT (X37-1070-00)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	RF signal processing IC	RF signal processing
IC2	Driver	Driver for motorists/pickup actuators
IC3	FLASH ROM	FW maintenance for optical DISC control IC
IC4	μ-com built-in optical DISC control IC	Optical DISC control in general/ATAPI interface
IC5	Voltage detection IC	For reset of optical DISC control IC
IC8	Voltage detection IC	For monitoring power supply voltage
IC9	S1.5V power supply IC	S5V → S1.5V
IC10	S3.3V power supply IC	S5V → S3.3V
IC11	EEPROM	Data storage for optical DISC control IC
Q1	MOS-FET	DVD laser diode ON/OFF control
Q2	MOS-FET	CD laser diode ON/OFF control
Q7	APC transistor	CD laser diode light emission amount control
Q8	APC transistor	DVD laser diode light emission amount control
Q9	MOS-FET	For CD laser diode protection
Q10	MOS-FET	For DVD laser diode protection
Q11	Resistor built-in transistor	LO-MUTE signal control
Q12	Resistor built-in transistor	FG signal control
Q13	Resistor built-in transistor	BMS signal control
Q14	Resistor built-in transistor	DRMU signal control

# MICROCOMPUTER'S TERMINAL DESCRIPTION

● System Microcomputer: 703264YGJ501A (X14: IC104)

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
1	AVREF0				
2	AVSS				
3,4	NC				
5	AVREF1				
6	V_MUTE	VIDEO	O	Video mute	H: MUTE ON
7	HD	VIDEO	I	Graphic	
7	NC		O	OSD	
8	FLMD0	μCOM	I		
9	VDD				
10	REGC				
11	VSS				
12	X1			4.953MHz	
13	X2				
14	RESET	μCOM	I		
15	XT1			32.768kHz	
16	XT2				
17	NC				
18	VD	VIDEO	I	(Graphic)	
18	NC		O	OSD	
19	BU_DET	Power supply	I	Back up detection	H: Reduced electric power detection
20	DISK_DET	DVD_MECHA	I	Disk detection	L: Disc IN
21	ACC_DET	Power supply	I	ACC detection	H: ACC reduced electric power detection
22	MINI_SDATA	PANEL	I	Data input from mini liquid crystal	
23	NC		O		
24	MINI_CLKIN	PANEL	I	Communication clock with mini liquid crystal	
25	BE_MDATA	B/E	O	Data output to B/E-IC	
26	BE_SDATA	B/E	I	Data input from B/E-IC	
27	BE_CLK	B/E	I	Communication clock with B/E-IC	
28	BE_MREQ	B/E	O	Request to B/E-IC	
29	BE_SREQ	B/E	I	Request from B/E-IC	
30	REMO	PANEL	I	Remote controller	
31	S_MUTE	VIDEO	O	Composite signal mute	L: FULL GRAPHIC (OSD), H: OTHER
32	NC				
33	EVSS				
34	EVDD				
35	SDA/E2P_SDA	μCOM	I/O	Access with E2P	
35	SDA/ROM_COR_SDA	μCOM	I/O	Access with E2P at coping with ROM correction	
35	SDA/CHROMA_SDA_SDA	Chroma γ	I/O	Access with chroma γ IC	
36	SCL/E2P_SCL	μCOM	I/O	Access with E2P	
36	SCL/ROM_COR_SCL	μCOM	I/O	Access with E2P at coping with ROM correction	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
36	SCL/CHROMA_SCL	Chroma $\gamma$	I/O	Access with chroma $\gamma$ IC	
37	BE_RST	B/E	O	B/E circuit reset	L: RESET
38	POWER_DET	Power supply	I	8.5V over current detection	H: Abnormality detection
39	BL_DET	INVERTER	I	Backlight abnormality detection	H: Abnormality detection
40	B_PON	Power supply	O	SW14 (BU SW)ON/OFF control	H: ON
41,42	NC		O		
43	FSEL1	Power supply	O	DC-DC IC oscillation frequency switching	
44	FSEL2	Power supply	O	DC-DC IC oscillation frequency switching	
45	FSEL_SW	Power supply	O	Control at DC-DC IC FSEL switching	Normal: H, At FSEL switching: L
46	PON	Power supply	O	Power supply ON/OFF control	H: ON
47	MCNT	Power supply	O	Motor driver voltage switching (MECHA7V) (1DIN)	H: 7V, L: 5V
48	RGB_SW	VIDEO	O	RGB signal switching	L: DVD, H: OTHER
49	OSD_CS	OSD	O	OSD-IC chip select (OSD)	
50	OSD_DATA	OSD	O	Data output to OSD-IC (OSD)	
51	OSD_CLK	OSD	O	Clock output to OSD-IC (OSD)	
52	OSD_RST	OSD	O	Resetting OSD-IC (OSD)	
53	WRT_E2P	$\mu$ COM	I	Used for E2P writing	
54	POWER_PWM	Power supply	O	DC/DC-IC oscillation frequency control	PWM output. At FSEL switching stopped. (Output L)
55	JIG_EJ	EXTRA	I	2DIN	
56	PWM	INVERTER	O	Liquid crystal brightness control	
57	STATUS0	JIG	O	For monitor mechanism endurance Jig	
58	STATUS1	JIG	O	For monitor mechanism endurance Jig	
59	PANEL_DET	PANEL	I	Front panel attach/detach detection	H: Detached, L: Attached 2DIN L-fixed
60	STATUS2	JIG	O	For monitor mechanism endurance Jig	
61	SH_MDATA	SH-3	O	Data output to SH-3 $\mu$ -com (GRAPHIC)	
62	SH_SDATA	SH-3	I	Data input from SH-3 $\mu$ -com (GRAPHIC)	OSD is output
63,64	NC		O		
65	SYS_SREQ	BOX	I	Request from BOX $\mu$ -com	
66	SYS_MREQ	BOX	O	Request to BOX $\mu$ -com	
67	SYS_ON	BOX	O	BOX $\mu$ -com ON/OFF control	H: ON, L: OFF
68	SYS_SDATA	BOX	I	Data input from BOX $\mu$ -com	
69	SYS_MDATA	BOX	O	Data output to BOX $\mu$ -com	
70	SYS_CLK	BOX	O	Communication clock with BOX $\mu$ -com	250kHz
71	MINI_CS/MINI_CS	PANEL	O	Communication with mini liquid crystal	
71	MINI_CS/FLASH_SDATA	$\mu$ COM	I	For flash writing	
72	MINI_MDATA/MINI_MDATA	PANEL	O	Communication with mini liquid crystal	
72	MINI_MDATA/SUBLED_SW	PANEL	O	Model without mini liquid crystal LED ON/OFF	HI: ON
72	MINI_MDATA/FLASH_MDATA	$\mu$ COM	O	For flash writing	
73	MINI_CLK/MINI_CLK	PANEL	O	Communication with mini liquid crystal	
73	MINI_CLK/FLASH_CLK	$\mu$ COM	I	For flash writing	



# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
74	OPEN_CLOSE/OPEN_CLOSE	PANEL	I	OPEN_CLOSE key (1DIN)	L: ON
74	OPEN_CLOSE/EJECT	PANEL	I	Tilt mechanism OPEN/CLOSE and eject (2DIN)	L: ON
75	SRC	PANEL	I	Source key	L: ON
76	EJECT	PANEL	I	Eject key (1DIN)	L: ON 2DIN HI-fixed input
77	MINI_PON	PANEL	O	MINI liquid crystal Power supply control	H: ON, L: OFF
78	DSI	PANEL	O	DSI control (1DIN)	
79	ILL_DET	Power supply	I	ILLUMI detection	H: Normal, L: Detect
80	PAK_DET	Power supply	I	Parking detection	H: Normal, L: Detect
81	REV_DET	Power supply	I	Reverse detection	H: Normal, L: Detect
82~84	NC		O		
85	SH_INI	SH-3	O	(GRAPHIC)	
86	SH_STBY	SH-3	I	(GRAPHIC)	
87	SH_SREQ	SH-3	I	Request from SH-3 $\mu$ -com (GRAPHIC)	
88	SH_MREQ	SH-3	O	Request to SH-3 $\mu$ -com (GRAPHIC)	
89	SH_CON	SH-3	O	(GRAPHIC)	
90	SH_RST	SH-3	O	SH-3 $\mu$ -com resetting (GRAPHIC)	
91	TOUCH	SH-3	I	(GRAPHIC)	
92	TOUCH_EN	SH-3	O	(GRAPHIC)	
93	NAVI_L	VIDEO	O		L: NAVI, H: OTHER
94~97	TYPE0~TYPE3	EXTRA	I	Destination setting	Refer to destination setting
98	SUBLED_OFF	Other X35	O	2DIN disc LED control (2DIN)	
99	TMOTOR_M	1DIN_MECHA	O	Monitor mechanism tilt control (1DIN)	
99	TILT_UP	2DIN_MECHA	O	Tilt mechanism control (2DIN)	
100	TMOTOR_P	1DIN_MECHA	O	Monitor mechanism tilt control (1DIN)	
100	TILT_DOWN	2DIN_MECHA	O	Tilt mechanism tilt control (2DIN)	
101	SMOTOR_M	1DIN_MECHA	O	Monitor mechanism slide control (1DIN)	
102	SMOTOR_P	1DIN_MECHA	O	Monitor mechanism slide control (1DIN)	
103	BVSS				
104	BVDD				
105	SW_A	1DIN_MECHA	I	Monitor mechanism detection(1DIN)	2DIN is OUT
106	SW_B	1DIN_MECHA	I	(1DIN)	2DIN is OUT
107	SW_C	1DIN_MECHA	I	Monitor mechanism detection	2DIN is OUT
108	SW_D	1DIN_MECHA	I	Monitor mechanism detection	2DIN is OUT
109	ENABLE	INVERTER	O	Backlight ON/OFF control	H: ON
110	FLMD1	$\mu$ COM	I		
111	Y0	Touch panel	O	Touch panel control (OSD)	
112	X1	Touch panel	O	Touch panel control (OSD)	
113	X0	Touch panel	O	Touch panel control (OSD)	
114-117	HPOS1~HPOS4	LCD	O	Display position control	
118-120	MODE1~MODE3	LCD	O	Aspect setting	
121	MIRROR	LCD	O	Rear monitor mirror control	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Processing Operation Description
122	ILL_R	PANEL	O	Key ILLUMI red ON/OFF	H: ON, L: OFF
123	ILL_G	PANEL	O	Key ILLUMI green ON/OFF	H: ON, L: OFF
124	ILL_B	PANEL	O	Mini liquid crystal backlight blue ON/OFF	H: ON, L: OFF
125	NTSC_PAL	VIDEO	O	LCD output signal NT/PAL identification output	H: PAL, L: NTSC
126	LED_SW/SI	Other X35	O	LED blinking control at OPEN/CLOSE (1DIN)	H: Light turn ON, L: Light turned OFF
126	LED_SW/SI	Other X35	O	SI control (2DIN)	H: Light turn ON, L: Light turned OFF
127	LCD_PON	LCD	O	LCD power supply ON/OFF control	H: ON
128-134	NC		O		
135	TL_DET	Power supply	I	Power supply reduced electric power detection	
136	KEY1	PANEL	I	4 key monitor mechanism section (1DIN)	
137	KEY2	PANEL	I	8 key attach/detach panel section (1DIN)	
138	KEY3	PANEL	I	6 key panel section (2DIN)	
139	KEY4	PANEL	I	6 key panel section (2DIN)	
140	R_SENS	1DIN_MECHA	I	Monitor mechanism tilt sensor (1DIN)	
140	R_SENS	2DIN_MECHA	I	Tilt mechanism tilt sensor (2DIN)	
141	PH_DET	1DIN_MECHA	I	Monitor mechanism slide detection (1DIN)	
142	AUTO_DIM	Other X35	I	Auto dimmer input	
143	YDATA	Touch panel	I	Touch data input (OSD)	
144	XDATA	Touch panel	I	Touch data input (OSD)	

### Destination setting of GRAPHIC model and OSD model

CLASSIFICATION	CATEGORY	MODEL NAME	DESTINATION	TYPE3	TYPE2	TYPE1	TYPE0
GRAPHIC	1DIN	KVT-817DVD	K	0	0	0	1
		KVT-827DVD	E	0	0	1	0
		KVT-837DVD	M	0	0	1	1
		KVT-847DVD/867DVD	V/X	0	1	0	0
	2DIN	DDX8017	K	1	0	0	1
		DDX8027	E	1	0	1	0
		DDX8037	M	1	0	1	1
		DDX8047/8067	V/X	1	1	0	0
OSD	1DIN	KVT-717DVD	K	0	0	0	1
		KVT-627DVD/727DVD	E	0	0	1	0
		KVT-737DVD	M	0	0	1	1
		KVT-747DVD/767DVD	V/X	0	1	0	0
		KVT-747DVD	R	0	1	1	1
	2DIN	DDX7017	K	1	0	0	1
		DDX6027	E	1	0	1	0
		DDX7037	M	1	0	1	1
		DDX7047/7067	V/X	1	1	0	0
		DDX7047	R	1	1	1	1

**MICROCOMPUTER'S TERMINAL DESCRIPTION**● **Graphic Microcomputer: 6417706F120DV (X14: IC800)**

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
1	Vcc-RTC	Power supply	-	RTC power supply	1.9V
2	XTAL2	EXTRA	O	Built-in RTC crystal oscillator terminal	NC
3	EXTAL2	EXTRA	I	Built-in RTC crystal oscillator terminal	Pull-up to Vcc
4	Vss-RTC	Power supply	-		
5~10	D31~D26	EXTRA	I/O	Data bus	
11	VssQ	Power supply	-		
12	D25	EXTRA	I/O	Data bus	
13	VccQ	Power supply	-	I/O power supply	3.3V
14~18	D24~D20	EXTRA	I/O	Data bus	
19	Vss	Power supply	-		
20	D19	EXTRA	I/O	Data bus	
21	Vcc	Power supply	-	Internal power supply	1.9V
22~24	D18~D16	EXTRA	I/O	Data bus	
25	VssQ	Power supply	-		
26	D15	EXTRA	I/O	Data bus	
27	VccQ	Power supply	-	I/O power supply	3.3V
28~36	D14~D6	EXTRA	I/O	Data bus	
37	VssQ	Power supply	-		
38	D5	EXTRA	I/O	Data bus	
39	VccQ	Power supply	-	I/O power supply	3.3V
40~44	D4~D0	EXTRA	I/O	Data bus	
45~48	A0~A3	EXTRA	O	Address bus	
49	VssQ	Power supply	-		
50	A4	EXTRA	O	Address bus	
51	VccQ	Power supply	-	I/O power supply	3.3V
52~60	A5~A13	EXTRA	O	Address bus	
61	VssQ	Power supply	-		
62	A14	EXTRA	O	Address bus	
63	VccQ	Power supply	-	I/O power supply	3.3V
64~70	A15~A21	EXTRA	O	Address bus	
71	Vss	Power supply	-		
72	A22	EXTRA	O	Address bus	
73	Vcc	Power supply	-	Internal power supply	1.9V
74~76	A23~A25	EXTRA	O	Address bus	
77	BS	EXTRA	O	Bus cycle start signal	
78	RD	EXTRA	O	Lead strobe	
79	WE0/DQMLL	EXTRA	O	D7~D0 select signal /DQM (SDRAM)	
80	WE1/DQMLU	EXTRA	O	D15~D8 select signal /DQM (SDRAM)	
81	WE2/DQMUL	EXTRA	O	D23~D16 select signal /DQM (SDRAM)	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
82	WE3/DQMUU	EXTRA	O	D31~D24 select signal /DQM (SDRAM)	
83	RDWR	EXTRA	O	Read/Write	
84	VssQ	Power supply	-		
85	CS0	EXTRA	O	Chip select 0 (ROM)	For ROM
86	VccQ	Power supply	-	I/O power supply	3.3V
87	CS2	EXTRA	O	Chip select 2 (For DMA)	
88	CS3	EXTRA	O	Chip select 3 (SDRAM)	For SDRAM
89	CS4	EXTRA	O	Chip select 4 (SRAM)	For SRAM
90	CS5	EXTRA	O	Chip select 5 (GRITT: VRAM)	For GRITT
91	CS6	EXTRA	O	Chip select 6 (GRITT: Register)	For GRITT
92	NC		O		
93	VssQ	Power supply	-		
94	NC		O		
95	VccQ	Power supply	-	I/O power supply	3.3V
96	RAS	EXTRA	O	Row address strobe	
97	NC		O		NC
98	CAS	EXTRA	O	Colum address strobe	
99	NC		O		
100	CKE	EXTRA	O	Clock enable	
101	SHINI	V850	I	Resetting start identification	H: Other than reset start, L: Reset start
102	BACK	EXTRA	O	Bus acknowledge	NC
103	BREQ	EXTRA	I	Bus right request	High level fixed.
104	R_WAIT	GRITT	I	Hardware wait request	
105	SH_DACK	GRITT	O	DMA acknowledge	
106,107	NC		O		
108	SHSTBY	V850	O	Power supply OFF permission	H: Power supply OFF not permitted L: Power supply OFF permitted
109	AUDATA0	H-UDI	I/O	AUDATA input/output	
110	AUDATA1	H-UDI	I/O	AUDATA input/output	
111	AUDATA2	H-UDI	I/O	AUDATA input/output	
112	AUDATA3	H-UDI	I/O	AUDATA input/output	
113	AUDSYN.C	H-UDI	O	AUDSYNC output (H-UDI)	
114	TDI	H-UDI	I	Data input (H-UDI)	
115	Vss	Power supply	-		
116	TCK	H-UDI	I	Clock (H-UDI)	
117	Vcc	Power supply	-	Internal power supply	1.9V
118	TMS	H-UDI	I	Mode select (H-UDI)	
119	TRST	H-UDI	I	Reset (H-UDI)	
120	TDO	H-UDI	O	Data output (H-UDI)	
121	ASEBRKAK	H-UDI	O	ASE break acknowledge (H-UDI)	

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
122	ASEMD0	H-UDI	I	ASE mode (H-UDI)	
123	Vcc-PLL1	Power supply	-	PLL1 power supply	1.9V
124	CAP1	Power supply	-	PLL1 external capacity terminal	470pF
125	Vss-PLL1	Power supply	-		
126	Vss-PLL2	Power supply	-		
127	CAP2	Power supply	-	PLL2 external capacity terminal	470pF
128	Vcc-PLL2	Power supply	-	PLL2 power supply	1.9V
129	MD1	EXTRA	I	Clock mode setting	
130	Vss	Power supply	-		
131	XTAL	EXTRA	O	Crystal oscillator terminal	NC
132	EXTAL	EXTRA	I	External clock input / Crystal oscillator terminal	
133	NC		O		
134	SH_SREQ	V850	O		
135	SH_MREQ	V850	I		
136	NC		O		
137	VssQ	Power supply	-		
138	CKIO	EXTRA	O	System clock output	
139	VccQ	Power supply	-	I/O power supply	3.3V
140,141	NC		O		
142	SH_SDATA	V850		UART	
143	NC		O		
144,145	NC		I		
146	SH_MDATA	V850		UART	
147	R_INT	GRITT	I	Interruption request from graphic IC	
148	Vss	Power supply	-		
149	RESETM	EXTRA	I	Manual resetting request	High level fixed
150	Vcc	Power supply	-	Internal power supply	1.9V
151	TOUCH	V850	O	Touch off detection	H: Touch OFF, L: Touch ON
152	TOUCH_EN	V850	I	Touch control enable	H: Touch control possible, L: Touch control not possible
153	X1	X35	O	Touch panel control	
154	X0	X35	O	Touch panel control	
155	SHCON	V850	I	Graphic $\mu$ -com operation control	H: Operation possible, L: Operation not possible
156	VssQ	Power supply	-		
157	NMI	EXTRA	I	Non-maskable interruption	Low level fixed
158	VccQ	Power supply	-	I/O power supply	3.3V
159	AUDCK	H-UDI	I	AUDCK input (H-UDI)	
160	R_DREQ	GRITT	I	DMA request	
161	Y0	X35	O	Touch panel control	
162	NC		I		Low level fixed
163	MD0	EXTRA	I	Clock mode setting	High level fixed

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module	I/O	Application	Processing Operation Description
164	MD2	EXTRA	I	Clock mode setting	Low level fixed
165	SH_RST	V850	I		
166	CA	EXTRA	I	Hardware standby request	High level fixed
167	MD3	EXTRA	I	CS0 space bus width designation	Low level fixed
168	MD4	EXTRA	I	CS0 space bus width designation	High level fixed
169	MD5	EXTRA	I	Endean setting	Low level fixed
170	Avss	Power supply	-		
171	XDATA	X35	I	Touch panel input (X-direction)	
172	YDATA	X35	I	Touch panel input (Y-direction)	
173,174	NC		O		
175	Avcc	Power supply	-	Power supply for analog	3.3V
176	AVss	Power supply	-		

### ● Audio Microcomputer: 703068YGJ128A (X34: IC303)

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
1	DC_ERR	IC2 VI	I	DC offset detection		Low at the detection
2	LINE_MUTE	DC-CN	I	LINE MUTE detection		Normal: 1.6V, TEL MUTE: 1V or lower, NAVI MUTE: 2.5V or higher
3,4	NC	NC	I			
5	PORTGND0	μCOM				
6	AUDIO_SW1_A	Audio	O	LX/NAV11/SW3 (or TV) / AVIN1 audio switching (For main)	①	Refer to truth value table
7	AUDIO_SW1_B	Audio	O	LX/NAV11/SW3 (or TV) / AVIN1 audio switching (For main)	①	Refer to truth value table
8	AUDIO_SW2_A	Audio	O	TV/AVIN1/AVIN2 audio switching (For sub)	②	Refer to truth value table
9	AUDIO_SW2_B	Audio	O	TV/AVIN1/AVIN2 audio switching (For sub)	②	Refer to truth value table
10,11	NC		O			
12~14	NC	NC	O			
15	NC		O			L: MUTE ON, H: MUTE OFF
16	NC		O			
17	NC	NC	O			
18	EEPROM_WRT	EEPROM	I	Write detection at ROM correction		When writing to E2PROM from outside, Hi is input with a jig. (Common use SCL and SDA will stop operation) In other cases: Low (Pull-down)
19	MUTE_AVOUT	MUTE	O	MUTE for AVOUT		L: MUTE ON, H: Normal
20	MUTE_PRE	MUTE	O	MUTE for PREOUT		L: MUTE ON, H: Normal

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
21	P_CON	DC-CN	O	External amp power supply control		Hi: During POWER ON (Does not come On during STANDBY), Low: During STANDBY or POWER OFF
22	PORTVDD0	μCOM				
23	EXT_CONT	DC-CN	O	External amp control		
24	ANT_CONT	DC-CN	O	Power antenna control		Hi at FMAM selection→Antenna UP H: Antenna UP, In other cases Low→Antenna DOWN
25	P_ON	Power supply	O	SW5V→SW14V power supply ON/OFF control		H: ON, L: Normal
26	PWIC_MUTE	POWER-IC	O	POWER-IC MUTE control		L: MUTE ON (At POWER, ACC OFF, STANDBY, momentary power down)
27	PWIC_STBY	POWER-IC	O	POWER-IC standby control		H: POWER ON, L: POWER OFF
28	NC		O			
29	EEPROM_SDA	EEPROM	I/O	Data for EEPROM (ROM correction)		
29	AUD_SDA	IC2 VI	I/O	Data for IC2 VI		
30	EEPROM_SCL	EEPROM	I/O	Clock for EEPROM (ROM correction)		
30	AUD_SCL	IC2 VI	I/O	Clock for IC2 VI		
31	MUTE0	IC2 VI	O	MUTE for IC2 VI OUT0		L: MUTE ON, H: MUTE OFF
32	MUTE1	IC2 VI	O	MUTE for IC2 VI OUT1		L: MUTE ON, H: MUTE OFF
33	MUTE2	IC2 VI	O	MUTE for IC2 VI OUT2		L: MUTE ON, H: MUTE OFF
34	NAVI_FLAG	IC2 VI	O	Monitoring whether NAVI interruption is taking place		L: No NAVI interruption H: NAVI interruption in progress
35	MUTEC	IC2 VI	O	MUTE for IC2 VI MUXC		L: MUTE ON, H: MUTE OFF
36	NC	NC	O			
37	GND0	μCOM				
38	CPUREG	μCOM				
39	VDD0	μCOM				
40	RESET	μCOM				
41	MODE/VPP	μCOM				
42	FLASH_SI	FLASH	I	Data input at flash write		
42	SYS_MDATA	to X14	I	Data from system control μ-com		
43	FLASH_SO	FLASH	O	Data output at flash writing		
43	SYS_SDATA	to X14	O	Data to system control μ-com		
44	FLASH_CLK	FLASH	I	CLK input at the flash writing		
44	SYS_MCLK	to X14	I	Clock from system control μ-com		
45	BU_DET	DC-CN	I	Backup reduced electric power detection		Low when 8.8V or higher. Hi when reduced electric power (8.8V or lower)
46	DIR_CDTO	DSP BLOCK	I	Input data for DIR		
47	DIR_CDTI	DSP BLOCK	O	Output data for DIR		

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
48	DIR_CCLK	DSP BLOCK	O	Data clock for DIR		
49,50	NC	NC	O			
51	ADC_RST	DSP BLOCK	O	Resetting for AD		L: Reset
52	DIR_RST	DSP BLOCK	O	Resetting for DIR		L: Reset
53	DAC_RST	DSP BLOCK	O	Resetting for DAC		L: Reset
54	DSP_RST	DSP BLOCK	O	Resetting for DSP		L: Reset
55	DIR_CS	DSP BLOCK	O	Chip select for DIR		L: Select
56	DAC_CS	DSP BLOCK	O	Chip select for DAC		L: Select
57	DIR_ERRF	DSP BLOCK	I	S/PDIF Unlock		H: Error, L: No Error
58	DSP_SS	DSP BLOCK	O	Select for DSP		L: Select
59	ADC_MUTE	DSP BLOCK	O	MUTE for AD		L: MUTE ON, H: MUTE OFF
60	PORT/VDD1	μCOM				
61	DAC_MUTE	DSP BLOCK	O	MUTE for DAC		L: MUTE ON, H: MUTE OFF
62~64	NC	NC	O			
65	BM_SW	DSP BLOCK	O	Bus management SW		H: BM ON, L: BM OFF
66	DSP_INFO	DSP BLOCK	I			
67,68	NC	NC	O			
69	SYS_ON	to X14	I	ON/OFF control from system control μ-com		H: Box unit ON, L: Box unit OFF
70,71	XT2, XT1	μCOM				
72	GND2	μCOM				
73,74	X1, X2	μCOM				
75,76	NC	NC				
77	LX_RST	LX_M	O	Hard to resetting to slave unit		H: Reset, L: Normal
78	LX_MUTE	LX_M	I	Muting request from slave unit		H: Mute ON, L: Mute OFF
79	LX_REQ_M	LX_M	O	Communication request to slave unit		
80	LX_CON	LX_M	O	Startup requests to slave unit		H: Slave unit ON, L: Slave unit OFF
81	LX_REQ_S	LX_M	I	Communication request from slave unit		
82	NC	NC	O			
83	TV_SREQ	TV	I	Request from TV unit		
84	TUN_SDA	FST	I/O	F/E I2C data input/output terminal		
85	NC	NC	O			
86	TUN_SCL	FST	I/O	F/E I2C clock output terminal		(MAX 400kHz)
87,88	NC	NC	O			
89	PWIC_BEEP	POWER-IC	O	Beep output		
90	SYS_MREQ	to X14	I	Request from system control μ-com		
91	SYS_SREQ	to X14	O	Request to system control μ-com		
92	PORTGND1	μCOM				
93	DAC_CLK	DSP BLOCK	O	Communication clock for DAC		
93	DSP_SCL	DSP BLOCK	O	Communication clock for DSP		



## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
94	DAC_DO	DSP BLOCK	I	Communication data for DAC		
94	DSP_SO	DSP BLOCK	I	Communication data for DSP		
95	DAC_DI	DSP BLOCK	O	Communication data for DAC		
95	DSP_SI	DSP BLOCK	O	Communication data for DSP		
96	FSEL_1	DSP BLOCK	O	Frequency selection for DC/DC		
97	FSEL_2	DSP BLOCK	O	Frequency selection for DC/DC		
98	NC	NC	O			
99	VSYNC_SW2	Visual	O	NTSC/PAL identification COMP signal Switching for monitoring whether there is AUTO detection COMP signal or not	⑭	
100	TYPE4	TYPE	I		⑦	Refer to truth value table
101	TV_CON	TV	O	Start up request to TV unit		H: TV unit ON, L: TV unit OFF
102	PORTVDD2	μCOM				
103	TV_CLK	TV	O	Clock to TV unit		
104	TV_MREQ	TV	O	Request to TV unit		
105	TV_MDATA	TV	O	Data to TV unit		
106	TV_SDATA	TV	I	Data from TV unit		
107	LX_DATA_S	LX_M	I	Data from slave unit		
108	LX_DATA_M	LX_M	O	Data to slave unit		
109	LX_CLK	LX_M	I/O	LX BUS clock		
110	VISUAL_SW5_1	Visual	O	TV/AVIN1 video switching	⑬	Refer to truth value table
111	NAVI1_RX	NAVI	I	Data from navigation 1		
112	NAVI1_TX	NAVI	O	Data to navigation 1		
113	VISUAL_SW4	Visual	O	TV/Rear view camera video switching	⑫	Refer to truth value table
114	RGB_SW	Visual	O	TV/NAVI1/NAVI2 RGB video switching	⑩	Refer to truth value table
115	TV_JUDGE	TV	I	TV tuner old/new identification		H: Old, L: New
116	VSYNC_SW1	Visual	O	NTSC/PAL identification COMP signal Switching for monitoring whether there is AUTO detection COMP signal or not	⑭	
117,118	NC		O			
119	VISUAL_SW3_2	Visual	O	NAVI1/NAVI2/AVIN2 video switching	⑪	Refer to truth value table
120	VSYNC_DET	Visual	I	Vertical synchronization signal detection (For AVIN2 automatic detection)		
121	VISUAL_SW3_1	Visual	O	NAVI1/NAVI2/AVIN1 video switching	⑪	Refer to truth value table
122	VISUAL_SW2_2	Visual	O	SW5 (or TV)/AVIN2/DVD video switching	⑨	Refer to truth value table
123	VISUAL_SW2_1	Visual	O	SW5 (or TV)/AVIN2/DVD video switching	⑨	Refer to truth value table
124	VISUAL_SW1_2	Visual	O	AVIN2/SW5 (or TV)/ SW3 (or NAVI1) video switching	⑧	Refer to truth value table
125	RDS_CLK	RDS	I	RDS decoder CLK input		

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	Module (physical)	I/O	Application	Truth Value Table	Processing Operation Description
126	VISUAL_SW1_1	Visual	O	AVIN2/SW5 (or TV)/ SW3 (or NAV1) video switching	⑧	Refer to truth value table
127	VISUAL_SW5_2	Visual	O	TV/AVIN1 video switching	⑬	Refer to truth value table
128	VDD1	μCOM				
129	RDS_DATA	RDS	I	RDS decoder DATA input		
130	RDS_QUAL	RDS	I	RDS decoder QUAL input		SW5 (or TV)/AVIN1/DVD video switching
131	GND1	μCOM				
132	P_ON_AM	FST	O	AM power supply ON/OFF control		H: ON (AM selected), L: Normal
133	RDS_AFS	FST	I/O	Constant switching at noise detection		
134	TYPE3	TYPE	I	Destination setting	⑦	Refer to truth value table
135	RDS_NOISE	FST	I	FM noise detection		
136	TUN_SMETER	FST	I	S-meter input		
137	TUN_IFC_OUT	FST	I	F/E IFC OUT input terminal		H: With station, L: Without station
138	TYPE0	OEM	I	Destination setting	⑦	Refer to truth value table
139	TYPE1	OEM	I	Destination setting	⑦	Refer to truth value table
140	TYPE2	Type	I	Destination setting	⑦	Refer to truth value table
141	OEM_TYPE0	Type	I	OEM destination setting	⑥	Refer to truth value table
142	OEM_TYPE1	Type	I	OEM destination setting	⑥	Refer to truth value table
143	ADCVDD	μCOM				
144	ADCGND	μCOM				

### ① Audio Selector 1 (TC4052BFT)

AUDIO_SW1_A	AUDIO_SW1_B	Output	
L	L	IN3	AVIN1
H	L	IN2	TV
L	H	IN1	AVIN2
H	H	IN0	LX

\* Input is reversed by transistor before entering selector.

### ② Audio Selector 2 (TC4052BFT)

AUDIO_SW2_A	AUDIO_SW2_B	Output	
L	L	IN3	AVIN2
H	L	IN2	AVIN1
L	H	IN1	TV
H	H	IN0	Not used

\* Input is reversed by transistor before entering selector.

### ⑥ Destination setting for OEM

Destination	TYPE0	TYPE1
Marketing	0	0
OEM1	0	1
OEM2	1	0
EU Installation	1	1

# MICROCOMPUTER'S TERMINAL DESCRIPTION

## ⑦ TYPE4, TYPE3, TYPE2, TYPE1, TYPE0

Category	Model	Destination	TYPE4	TYPE3	TYPE2	TYPE1	TYPE0
1DIN	KVT-817DVD	K	Reserve	0	0	0	1
	KVT-827DVD	E	Reserve	0	0	1	0
	KVT-837DVD	M	Reserve	0	0	1	1
	KVT-867DVD	V	Reserve	0	1	0	0
	KVT-847DVD	X	Reserve	0	1	0	1
	KVT-727DVD	E2	Reserve	0	1	1	0
	KVT-747DVD	R	Reserve	0	1	1	1
2DIN	DDX8017	K	Reserve	1	0	0	1
	DDX8027	E	Reserve	1	0	1	0
	DDX8037	M	Reserve	1	0	1	1
	DDX8067	V	Reserve	1	1	0	0
	DDX8047	X	Reserve	1	1	0	1

\* Reserve terminal is pulled down.

## ⑧ Video Selector 1 (MM1228XFBE)

VISUAL_SW1_1	VISUAL_SW1_2	Output	
L	L	IN1	AVIN1
H	L	IN2	SW4
L/H	H	IN3	SW3 (or NAVI)

## ⑫ Video Selector 4 (MM1503)

VISUAL_SW4	Output	
L	IN1	TV
H	IN2	Rear view

## ⑨ Video Selector 2 (MM1228XFBE)

VISUAL_SW2_1	VISUAL_SW2_2	Output	
L	L	IN1	AVIN1
H	L	IN2	SW5 (or TV)
L/H	H	IN3	DVD

## ⑬ Video Selector 5 (BA7652AF)

VISUAL_SW5_1	VISUAL_SW5_2	Output	
L	L	IN1	TV
H	L	IN2	AVIN2
L	H	IN3	Not used
H	H	MUTE	-

## ⑩ RGB\_SW (MM1503 or MM1508)

RGB_SW	Output	
L	IN1	NAVI
H	IN2	TV

## ⑪ Video Selector 3 (BA7652AF)

VISUAL_SW3_1	VISUAL_SW3_2	Output	
L	L	IN1	NAVI
H	L	IN2	AVIN2
L	H	IN3	Not used
H	H	MUTE	-

## ⑭ VSYNC Selector (BA7652AF)

VSYNC_SW1	VSYNC_SW2	Output	
L	L	IN1	AVIN2
H	L	IN2	CAMERA
L	H	IN3	AVIN1
H	H	MUTE	-

### About muting of composite signal to X14

- Video Selector 1 is set to SW3 and Video Selector 3 is set to MUTE. Mute timing is at full OSD.

## MICROCOMPUTER'S TERMINAL DESCRIPTION

### ● Disc Controller Microcomputer: MN103S71F (X37: IC4)

Pin No.	Pin Name	I/O	Application
1	SW_2	I	8cm Ej-STOP, Lo-START detection
2	SW_3	I	Lo-START detection
3	CDON	O	CD-LD ON
4	VDD3	-	VDD (3.3V)
5	VSS	-	VSS
6	FG	I	Motor FG input
7	SW_4	I	Lo-END detection
8,9	FADR17,18	O	Address output to FLASH
10	FADR11	O	Address output to FLASH
11	FADR9	O	Address output to FLASH
12	VDD15	-	VDD (1.5V)
13	FADR8	O	Address output to FLASH
14,15	FADR13,14	O	Address output to FLASH
16	NWE	O	Right signal output to FLASH
17,18	FADR16,15	O	Address output to FLASH
19	DRAMVDD15	-	DRAM power supply (1.5V)
20	DRAMVSS	-	VSS for DRAM
21	VSS	-	VSS
22	FADR12	O	Address output to FLASH
23~30	FADR7~0	O	Address output to FLASH
31	VSS	-	VSS
32	VDD3	-	VDD (3.3V)
33~40	FDT0~7	I/O	Data input/output with FLASH
41	NCE	O	Chip select signal output to FLASH
42	FADR10	O	Address output to FLASH
43	NOE	O	Read signal output to FLASH
44	MMOD	I	Test mode switching signal
45	NRST	I	Reset input
46	VSS	-	VSS
47	SCLOCK	I/O	Dwire clock terminal
48	SDATA	I/O	Dwire data terminal
49	TxD/EXTRG0	I/O	Serial transmission/ Dwire trigger terminal
50	RxD/EXTRG1	I/O	Serial reception/ Dwire trigger terminal
51	VDD3	-	VDD (3.3V)
52	OSCI	I	Oscillation input (16.897849MHz)
53	OSCO	O	Oscillation output (16.897849MHz)
54	VSS	-	VSS

Pin No.	Pin Name	I/O	Application
55	OFS_TE	O	CD TE offset cancel output
56	DRV1	O	Drive output for spindle drive
57	DRV2	O	Focus balance adjustment output
58	DVDON	O	DVD-LD ON
59	STEP_A	O	Thread control output A
60	STEP_B	O	Thread control output B
61	Lo/Ej	O	Lo/Ej control terminal
62	LO.MUTE	O	Lo/Ej mute terminal
63	VSS	-	VSS
64	DRV.MUTE	O	Driver mute control
65	BMS	O	Spindle short brake control
66	LIM-SW	I	LIM-SW detection
67	Gain_SW	O	PDIC Gain switching
68	FEPCK	O	FEP clock output
69	FEPDT	O	FEP data output
70	FEPEN	O	FEP enable signal
71	DRAMVSS	-	VSS for DRAM
72	DRAMVDD15	-	DRAM power supply (1.5V)
73	DRAMVDD33	-	DRAM power supply (3.3V)
74	VDD3	-	VDD (3.3V)
75	FG	I	Motor FG input
76	TX	O	Output for digital OUT
77	VDD15	-	VDD (1.5V)
78	VSS	-	VSS
79	TSTSG	O	EQ calibration signal
80	VFOSHORT	O	Not used.
81	JLINE	O	J-line setting output
82	BDO	I	Dropout signal input
83	OFTR	I	Off-track signal input
84	AVSSD	-	VSS for analog
85	ROUT	O	MASH Rch audio output
86	LOUT	O	MASH Lch audio output
87	AVDDD	-	VDD (3.3V) for analog
88	VCOF	I	JFVCO control voltage
89	TRCRS	I	Track loss generation signal input
90	AVDDC	-	VDD (3.3V) for analog
91	WBLIN	I	WBL input
92	CSLFLT	I	Not used
93	RFDIF	I	Not used

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application
94	AVSSC	-	VSS for analog
95	PLFLT2	I	Condenser 2 for PLL
96	PLFLT1	I	Condenser 1 for PLL
97	AVSSB	-	VSS for analog
98	ARF	I	Equivalent RF+ input
99	NARF	I	Equivalent RF- input
100	VHALF	I	Reference voltage 1.65V input
101	RV1	I	VREFH register for reference current power supply
102	VREFH	I	Reference voltage 2.2V input
103	DSL F2	I	Condenser 2 for DSL
104	DSL F1	I	Condenser 1 for DSL
105	AVDDB	-	VDD (3.3V) for analog
106	JITOUT	O	For jitter monitor
107	AVDDA	-	VDD (3.3V) for analog
108	TECAPA	I	Not used
109	AD0 (FE)	I	FE input
110	AD2 (AS)	I	AS input
111	AD1 (TE)	I	TEph/TE3b input
112	AD3 (ENV)	I	RF envelop input
113	AD4 (RFDIFO)	I	Push-pull TE input
114	AD5	I	Focus drive AD input
115	AD6	I	Tracking drive AD input
116	AD7 (IOP)	I	Laser diode current measurement
117	AD8 (TEMP_DET)	I	Temperature monitoring input
118	AVSSA	-	VSS for analog
119	PWM0 (FOD)	O	Focus drive output
120	PWM1 (TRD)	O	Tracking drive output
121	VSS	-	VSS
122	VDD3	-	VDD (3.3V)
123	IDGT	O	Not used
124	DTRD	O	Not used
125	MONI0	O	Internal monitor signal
126~130	MONI1~5	O	Internal monitor signal
131	SW_2*3	I	8cm Ej-STOP, Lo-START detection
132	SW_1*5	I	12cm Ej-STOP detection
133	DMARQ	O	DMA request output ATAPI host
134	NIOWR	I	ATAPI host write signal input
135	VDD3	-	VDD (3.3V)
136	VSS	-	VSS

Pin No.	Pin Name	I/O	Application
137	NIORD	I	ATAPI host read signal input
138	IORDY	O	Ready output to ATAPI host
139	NDMACK	I	ATAPI host DMA acknowledge input
140	INTRQ	O	Interruption output to ATAPI host
141	NIOCS16	O	Not used
142	DA1	I	ATAPI host address signal input
143	NPDIAG	I	Diagnosis from ATAPI slave to master
144	DA0	I	ATAPI host address signal input
145	VSS	-	VSS
146	VDD3	-	VDD (3.3V)
147	DA2	I	ATAPI host address signal input
148	NCS1FX	I	ATAPI host chip select signal input
149	NCS3FX	I	ATAPI host chip select signal input
150	NDASP	O	ATAPI drive active/slave
151	HDD15	I/O	ATAPI data input/output
152	HDD0	I/O	ATAPI data input/output
153	HDD14	I/O	ATAPI data input/output
154	HDD1	I/O	ATAPI data input/output
155	HDD13	I/O	ATAPI data input/output
156	VDD3	-	VDD (3.3V)
157	VDD15	-	VDD (1.5V)
158	VSS	-	VSS
159	HDD2	I/O	ATAPI data input/output
160	HDD12	I/O	ATAPI data input/output
161	HDD3	I/O	ATAPI data input/output
162	HDD11	I/O	ATAPI data input/output
163	HDD4	I/O	ATAPI data input/output
164	HDD10	I/O	ATAPI data input/output
165	HDD5	I/O	ATAPI data input/output
166	VSS	-	VSS
167	VDD3	-	VDD (3.3V)
168	HDD9	I/O	ATAPI data input/output
169	HDD6	I/O	ATAPI data input/output
170	HDD8	I/O	ATAPI data input/output
171	HDD7	I/O	ATAPI data input/output
172	VDDH	-	5V reference power supply
173	NRESET	I	ATAPI reset signal input
174	MASTER	I	ATAPI master/slave signal input
175	SCL	O	EEPROM clock output
176	SDA	I/O	EEPROM data input/output

# TEST MODE

## Operation Specifications

### ● Compatible Models for This Test Mode Specification

	1Din GRA	1Din OSD		2Din GRA	2Din OSD	M707
	DSP Exist	DSP Exist	DSP None	DSP Exist	DSP None	DSP None
K	KVT-817DVD	-	KVT-717DVD	DDX8017	DDX7017	KVT-M707
R	-	-	KVT-747DVD	-	DDX7047	-
E	KVT-827DVD	KVT-727DVD	KVT-627DVD	DDX8027	DDX6027	KVT-M707
M	KVT-837DVD	-	KVT-737DVD	DDX8037	DDX7037	-
X	KVT-847DVD	-	KVT-747DVD	DDX8047	DDX7047	-
V	KVT-867DVD	-	KVT-767DVD	DDX8067	DDX7067	-

- Depending on Din/Display Types in the table below, test mode specifications may differ from model to model. In this specification, categorizing by 1DIN/2DIN and Graphic/OSD, M707, DSP, and destinations (K/R/E/M/X/V).

Model	Din Type	DSP	Display Type
KVT-8x7DVD	1DIN	Exist	Graphic
KVT-727DVD	1DIN	Exist	OSD
KVT-7x7/627DVD	1DIN	None	OSD
DDX80x7	2DIN	Exist	Graphic
DDX70x7/6027	2DIN	None	OSD
KVT-M707	1DIN	None	OSD

x: Different in accordance with the region code

### ● How to enter the test mode

There are two different ways to enter the test mode as shown below.

- 1) While pressing [SRC key + ATT key] at the same time, reset the unit.
- 2) Connect to Lx connector odd jigg for writing regions (2DIN: When adjusting flicker)

**Note1:** The jig setting is arbitrary. Note that, however, there are functions according the setting SW. (Region/Serial/Security/CPPM)

**Note2:** In the test mode, power supply is cut off after 30 minutes. (This is for making the operation possible without Security input even when the security is On.)

### ● Adjustment items

Items to be adjusted after writing on the EEPROM on which regions have been written.

As for the details of the adjustments, refer to each adjustment item.

- Service Information/Serial Code writing
- Chroma adjustment
- Writing Touch Adjust values
- Screen position adjustment
- Panel mechanism position adjustment
- Writing Security Code (Other than K/R destinations)

### ● How to clear the Security Code

In adjusting K/R destination units, if the unit starts up with Security ON, the Security Code can be cleared in the following manner. (Other than in Test Mode)

- 1) In the e Security ON condition, after resetting or turning power ON after backup OFF, then the session starts with Security Code Input screen.
- 2) With the attached remote control in the Audio SW selected condition, input the code with the following procedure.  
Procedure 1: "K" input (Press Tenkey [5] 2 times)  
Procedure 2: "C" input (Press Tenkey [2] 3 times)  
Procedure 3: "A" input (Press Tenkey [2] once)  
Procedure 4: "Q" input (Press Tenkey [7] 2 times)

**Note:** If a remote controller other than the attached is used, Pressing Tenkey [7] twice will cause "R" to be input.

If a mistake is made during Procedure 1~4 above, input other remote controller Key. Then, start inputting again from Procedure 1.

- 3) Security Code is complete when the input screen for the Security Code is cleared.

# TEST MODE

## ● Information Screen

Below are display contents of the Information Screen.

- Region Code
- Serial No.
- Graphic  $\mu$ Com Version
- System  $\mu$ Com Version / Rom Correction Version / Type
- F/E Version / B/E Version
- Macrovision Version
- Box  $\mu$ Com Version / Rom Correction Version / Type / Span  
(Tuner frequency Span information)
- DC Offset detection information
- Security Info (BLANK: E2PROM not written, ON/OFF: Normal condition (ON/OFF security is set), ERROR: E2PROM write abnormal)

## ● TOUCH Screen

- Adjust Touch position and write it on E2PROM.
- With 3-point input, write from system  $\mu$ -com to EEPROM is achieved.
- E2PROM normal/abnormal ending is displayed on screen.

## ● HPOSI Screen

- Screen position adjustment is conducted and the result is stored in E2PROM.  
Adjustments are conducted in the following order:  
DVD → TV → VIDEO → NAVI
- DVD wallpaper is NTSC-fixed.
- E2PROM write normal/abnormal ending is displayed on screen.
- While adjustment is conducted on DVD, TDV-540A (Title 3-Chapter 16) is played.  
After Disc Loading, by pressing Tenkey [4] on the remote controller, transition is made to Title 3-Chapter 16.

## ● SERVICE Screen

Shown below are contents of the Service Screen.

- Power On time
- DVD Play time / DVD Eject number of times
- Monitor Open number of times / Monitor Close number of times
- E2PROM Chroma data information
- DC Offset detection information

Writing Serial No.

By pressing the Serial key, transition to the Serial No. Input screen is made.

E2PROM Chroma Data Clear

By pressing the Clear key, the E2PROM Chroma data is cleared.

DC Offset Data Clear

By pressing the Clear key, the E2PROM DC Offset data is cleared.

## ● Chroma Screen

- Chroma adjustment is conducted and the result is stored in E2PROM.
- The setting procedures are conducted with a remote controller.
- Chroma IC adjustment screen (Item setting) → To be written on EEPROM.

Setting item

- VCO free run adjustment (00h~FFh)
- YGCA gain adjustment (00h~FFh)
- Brightness adjustment (00h~FFh)
- Contrast adjustment (00h~FFh)
- Black limiter adjustment (00h~7Fh)
- White limiter peak adjustment (00h~7Fh)
- Gamma 1 adjustment (00h~FFh)
- Gamma 2 adjustment (00h~FFh)
- Rch sub-brightness adjustment (00h~FFh)
- Bch sub-brightness adjustment (00h~FFh)
- Rch sub-contrast adjustment (00h~FFh)
- Bch sub-contrast adjustment (00h~FFh)
- VCOM oscillation width adjustment (00h~FFh)

- E2PROM write normal/abnormal ending is displayed on screen.
- Writing region does not clear EEPROM Chroma data. EEPROM chroma data is cleared by the Clear key in the Service screen.

## ● MECHA ADJ Screen

- 2DIN panel adjustment is conducted and the result is stored in E2PROM.
- The voltage values at the time of Full Open/Full Close are written to E2PROM.
- E2PROM write normal/abnormal ending is displayed on screen.

## ● Source / Audio / Setup Screen

- Source/Audio Control/Setup Screen are the same as normal condition.

## ● Display

- Basically, in the Test Mode, screen will be dedicated screen.
- There will be no opening screen.
- Even during seek, the frequency display will be made.
- Touch position display (+) will be made. However, no display will be made in the Touch Adjust screen (In adjustment).

## TEST MODE

### ● Mini Liquid Crystal

- When starting up in the Test Mode, all lights will be lighted.
- All lighted condition will be released by Disp key.

### ● Key

- Tact Key specifications are shown below.

	1DIN (UNIT SP)	1DIN (BOX SP)	2DIN
SRC	As usual	As usual	As usual
VolUp	As usual	As usual	As usual
VolDw	As usual	As usual	As usual
Track (Seek) Up	As usual	As usual	As usual
Track (Seek) Dw	As usual	As usual	As usual
Play/Pause	-	-	Motor driver
AUTO (TI/DISP)	Short: NAVI forced interruption	Motor driver	NAVI forced interruption
Without mini liquid crystal	Long: Motor		
ATT	As usual	Flicker adjustment	As usual
Screen	As usua	As usual	As usual
Mode	As usua	As usual	As usual
V.SEL	V.SEL+AVOUT	V.SEL+AVOUT	V.SEL+AVOUT
FNC	Normal (No Easy)	Normal (NO Easy)	Normal (NO Easy)
Eject	As usual	As usual	As usual

### ● Remote Controller

- Using NA-R300 (SW: AUD), the following operations will be conducted (Normal operation other than the following)

Key code	Item
Direct	Chroma IC adjustment mode ON/OFF (Write)
Band (FM+)	Video mode switching (NAVI/AVIN/DVD)
M/S (AM-)	DVD audio/video confirmation switching
Performance (Play/Pause)	Chroma setting value set/release
Tenkey 7	To previous item of chroma adjustment
Tenkey 8	Chroma setting value change (UP)
Tenkey 9	To next item of chroma adjustment
Tenkey 0	Chroma setting value change (DW)
Tenkey 1 (Preset 1)	DVD 5.1ch audio confirmation switching (DVD source only)
Tenkey 2 (Preset 2)	DC Offset detection check direct switching (CD-CH source only)
Tenkey 3 (Preset 3)	V-IN mirror mode switching
Tenkey 4 (Preset 4)	HPOSI DVD confirmation direct switching



# TEST MODE

## ● Screen Management section

- While in the Test Mode (Including connection with special  $\mu$ -com/jig), the startup will be with VIDEO screen. → Transition to Test Mode Main screen is made with [FNC] key.
- In coordination with V.SEL, AVOUT is also switched. (AVOUT with Graphic and NAVI can be anything.)  
AVIN1 – (AVIN2) – (TV) – R-CAM – NAVI-DVD (NO specific order)
- Easy Control screen can be skipped using [FNC] key.
- Parking detection is ignored in Test Mode. However, Parking is not ignored when Unit is special.
- Reverse condition occurring in Test Mode will be made On condition (VSEL always has RCAM). However, when Unit is special, it will be as usual.  
(When detected, Reverse will cause R-CAM interruption, as usual.)
- Default screen of System Setup will be made System 2.
- Default screen of Audio Setup will be made Speaker Setup.
- Default speaker selected of Speaker Setup will be made Sub-woofer.
- When VIDEO 1 video is input or at signal switching (NTSC ↔ PAL) will not be OSD displayed. (OSD display will be made at V.SEL switching. Display will not be made at the time of VIDEO 1.)

## ● BEEP Control

- Beep will be sound regardless of destinations  
(When Standby sourcing, Beep will not be sound as PWIC limitation item.)

## ● SI Control

- Default of SI will be On.

## ● AVIF

- AVIN2 (AVIN1 for models with no AVIN2) Interruption will be made default On.
- NAVI interruption SP setting will be default FRONT ALL.
- V-IN mirror mode switching will be conducted with remote controller Tenkey [3].
- R-CAM Interruption will be made default On.

## ● SCREEN Adjustment

- Default is center. With one click, FullDown ↔ Center ↔ FullUp.
- Default for BRT is MAX.

## ● Audio

- Default for Volume is Step 30.
- Bal/Fad setting is one click: Min ↔ Center ↔ Max
- Default for LineMute is On.
- Xover setting is one click: Min ↔ Max.
- Default for Center Speaker is Speaker is installed. (The setting value is arbitrary.)
- Setting for Sub-woofer is On ↔ Off. (The setting value for On is arbitrary.)
- Default for PEQ is Flat.
- The transition for Effect Mode: Bypass+Center ↔ Bypass ↔ CS II (Music) ↔ PL II (Movie) ↔ Bypass+Center

## ● TUNER

- When E2PROM cannot be accessed, Error display will be made. (Tuner screen)
- Forced Narrow/ Middle/ Wide switching of K3I.  
By long pressing of Preset 4: Forced Narrow (\*\*.\*1MHz)  
By long pressing of Preset 5: Forced Middle (\*\*.\*2MHz)  
By long pressing of Preset 6: Forced Wide (\*\*.\*3MHz)

## ● DVD

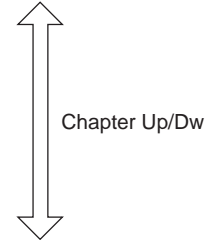
- CD media KTD-02A and DVD media, TDV-540A/TTD-100 are used.
- When Test Mode is started up in with Disc and Panel Open condition, the disc will not be ejected (The same as usual)
- Region code is set at the minute position of the time code.
- At time of CDDA media, RDM key will cause transfer to Track 28.
- At time of CDDA media ,pressing TrackUP key will cause: 9 → 15 → 10 → 11 → 12 → 13 → 14 → 9.
- When loading, Title1-Chapter1 (Indicated with ★ in table next page)

# TEST MODE

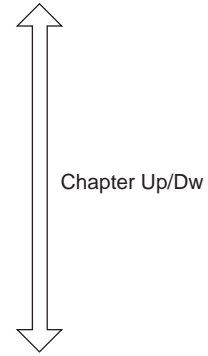
• DVD audio/video confirmation (TDV-540A)

For DVD video confirmation				
Title	Chapter			
★ 1	1			Audio Stream 1
3	6	Level		Audio Stream 1
3	7	S/N		Audio Stream 1
3	17	AM/PM noise		Audio Stream 1
3	8	Frequency characteristics		Audio Stream 1
3	12	Color bar measurement		Audio Stream 1

DISC DW (M/S)



For DVD audio confirmation				
Title	Chapter			
1	1			Audio Stream 1
4	1	1kHz 0dB	PCM48k/24bit	Audio Stream 2
4	6	7Hz	PCM48k/24bit	Audio Stream 2
4	16	22kHz	PCM48k/24bit	Audio Stream 2
4	2	infinity	PCM48k/24bit	Audio Stream 2
4	3	L	PCM48k/24bit	Audio Stream 2
4	4	R	PCM48k/24bit	Audio Stream 2
4	1	1kHz 0dB	Dolby	Audio Stream 1
4	2	infinity	Dolby	Audio Stream 1

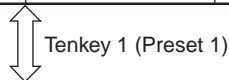


• 5.1ch audio confirmation (TTD-100)

For DVD audio confirmation				
Title	Chapter			
★ 1	1			Audio Stream 1

Tenkey 1 (Preset 1)

For DVD audio confirmation				
Title	Chapter			
3	1			Audio Stream 1



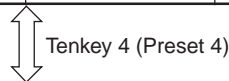
**Note:** At the time of confirming 5.1ch audio, as DISC determination (TDV-540A/TTD-100) cannot be conducted, key operations for Chap Up/Dw, DISC DW (M/S) will be made ineffective when playing Title 3-Chapter 1

• HPOSI video adjustment (TDV-540A)

For DVD video HPOSI confirmation				
Title	Chapter			
★ 1	1			Audio Stream 1

Tenkey 4 (Preset 4)

For DVD video HPOSI confirmation				
Title	Chapter			
3	16	Monoscope		Audio Stream 1



## TEST MODE

### ● Flicker Adjustment (Jig is connected to Lx)

1) When Jig is connected to Lx and power is turned On, then flicker adjustment comes On.

**Note:** The jig setting will be arbitrary. However, note that setting SW will be active. (Region/Serial/Security/CPPM).

2) Screen Mode is to be set to ZOOM and Video is to be set to VIDEO.

3) After starting up with flicker adjustment On, Key illumination/disc illumination is lighted up in cycle: Green ↔ Red (with one second interval.)

4) To turn flicker adjustment Off, turn power Off.

### ● DC Offset

- Clearing DC Offset detection (normal/abnormal)

By the use of DC Offset information clear key in the Service Information Screen, DC Offset detection information on E2PROM will be cleared.

- DC Offset detection information will be displayed on Information screen/Service Information screen.
- During Test Mode, even if DC Offset is detected, this will not be written to E2PROM.
- By pressing remote controller Tenkey 2 (Preset 2), the Volume setting will be switched to the following setting values.

Source: CD-CH

Designated disc: KTD-02A

Designated Track: 15 (20Hz, 0dB)

DISC/TRACK designation is conducted manually

Designated Vol: 29

### ● Specification to turn motor driver ON with no slide mechanism

- In the condition where designation key is pressed down, motor driver port is turned On.

With the [Play/Pause] key below depress, the motor is turned in reverse direction with the first key ON. With the [Play/Pause] key OFF, motor stops.

With the [Play/Pause] key ON for the second time, motor turned in forward direction. With the [Play/Pause] key OFF, motor stops. This goes on thereafter.

### ● Backup Memory

- During the Test Mode, Backup Memory function does not work. (Back up is conducted 30 minutes after Reset and then every one hour)

### ● Clearing E2PROM contents

- E2PROM contents that should not remain at shipping is cleared.

[SRC] key + [AUTO (TI/DISP)] key + Reset clears the memory content.

DC Offset information

Memory function

Storefront mode information

Service information

- When jig is connected to write region, the following contents will be cleared.

Serial Number

DC Offset information

Security Code

Memory function

Touch compensation

Storefront mode information

HPOSI data

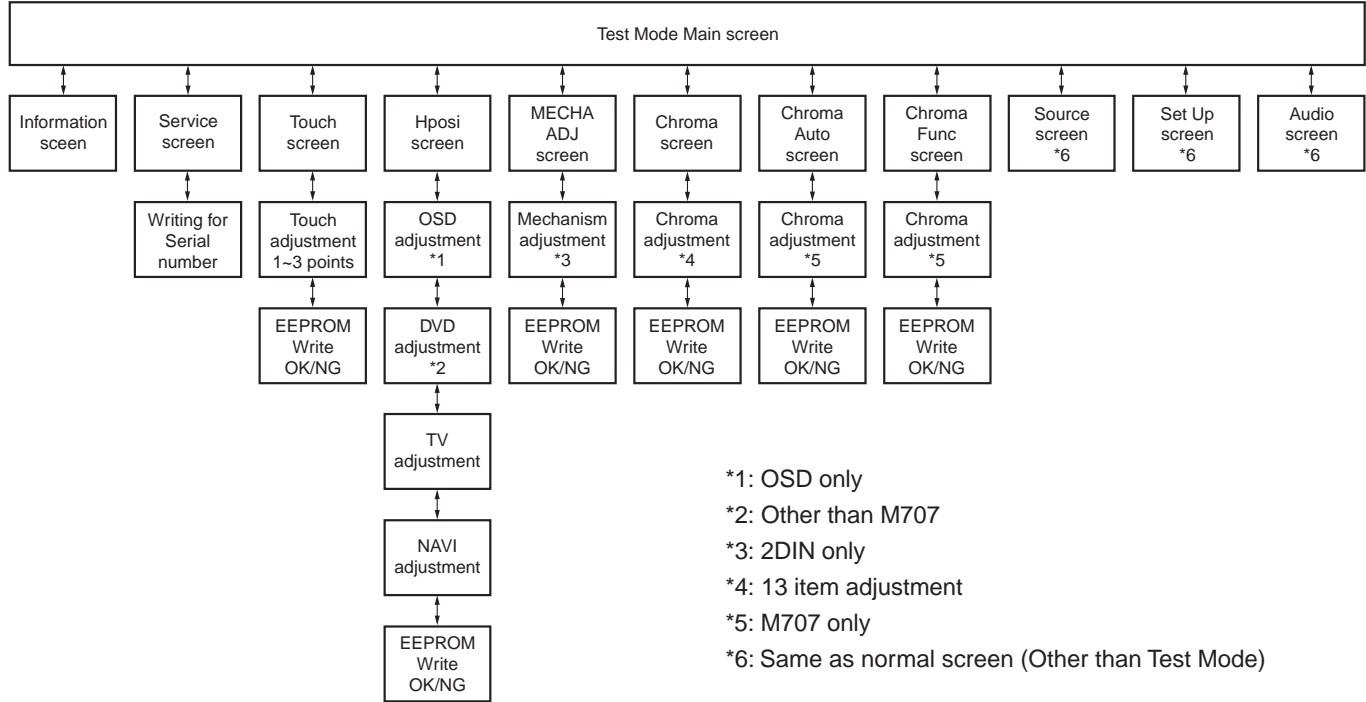
Service information

Mechanism position adjustment values

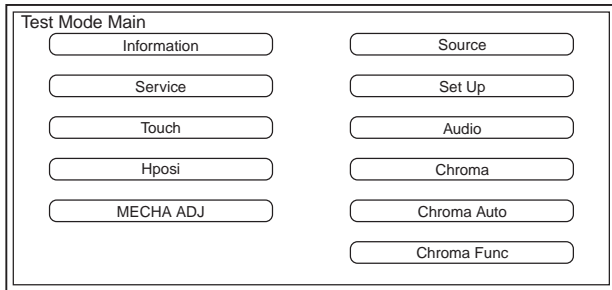
# TEST MODE

## Screen Specifications

- During the Test Mode, when Graphic Screen is selected, Test Mode Main screen is displayed.



### ● Test Mode Main Screen

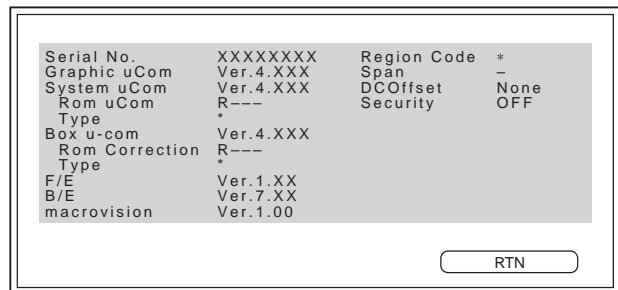


#### Key Specification

- Information: Information Screen is displayed.
- Service: Service Screen is displayed.
- Touch: Touch Screen is displayed.
- Hposi: Hposi Screen is displayed.
- MECHA ADJ: MECHA ADJ Screen is displayed. (2DIN only)
- Source: Source Screen is displayed.
- Set Up: Set Up Screen is displayed.
- Audio: Audio Screen is displayed.
- Chroma: Chroma Screen is displayed.
- Chroma Auto: Chroma Auto Screen is displayed. (M707 only)
- Chroma Func: Chroma Func Screen is displayed. (M707 only)

### ● Information Screen

- Serial No./μ-com version information/Region Code/Various conditions, etc. are displayed.



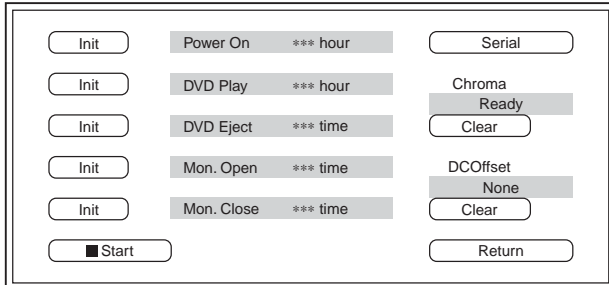
#### Key Specification

- RTN: Test Mode Main Screen is displayed.

# TEST MODE

## ● Service Screen

- Service information is displayed/cleared.
- EEPROM Chroma data is cleared.
- DC Offset detection information is displayed/cleared.



### Key Specification

- Init: Items to be initialized are selected.
- Start : Items that are selected with long-press (1 second or more) are initialized.
- Serial: Serial No Manual Input Screen is displayed.
- Clear: EEPROM Chroma data is cleared.
- Clear: EEPROM DC Offset information data is cleared.
- Return: Test Mode Main Screen is displayed.

**Note:** As for DVD related items, those other than M707.

**Note:** The key arrangements are somewhat different for OSD model and Graphic model.

### Adjustment Procedure

#### Service Information

- Select those items to be initialized by pressing Init Key. (More than one can be selected. / Those items that are selected are focus displayed.)
- When selection is complete, press Start Key for 1 second or more. The Service Information displayed is initialized.

#### Chroma

- Chroma information is normally Ready-displayed. When EEPROM data is cleared, Clr OK/NG is displayed.
- At the time of Clear, if not reset, When Chroma Adjustment Screen is displayed., the previous data is maintained. It is only after resetting that the cleared data is reflected.

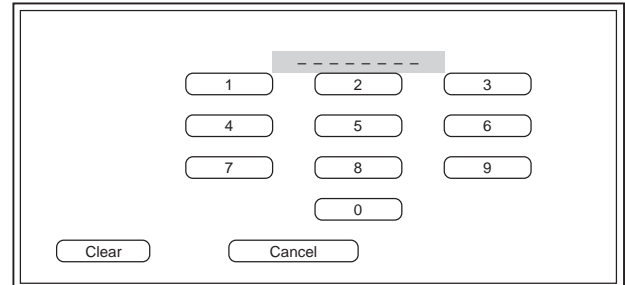
#### DC Offset

- As for DC Offset information, None means no detection and Detect means information detected.
- With Clear key, detection information is cleared.

## ● Serial Number Input Screen

- The serial number for each set is written.

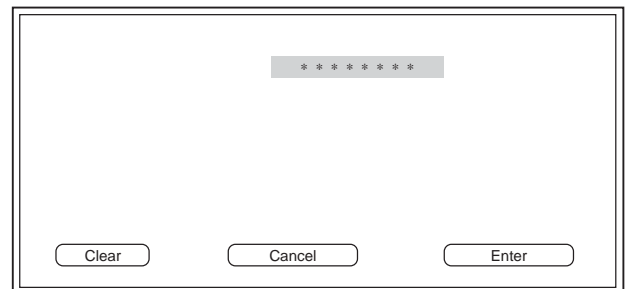
### Serial Number Input Screen



### Key Specification

- 0~9: 10Keys for Serial Number Input
- Clear: Serial number being input is cleared.
- Cancel : Service Screen is displayed.

### Serial Number Input writing Screen



### Key Specification

- Clear: Serial number being input is cleared.
- Cancel: Service Screen is displayed.
- Enter: Serial Number writing start (Write OK means normal ending. write NG display means error. )
- When OK, Service Screen is displayed with this key.
- When NG, enter the Test Mode again, and re-do from the beginning.

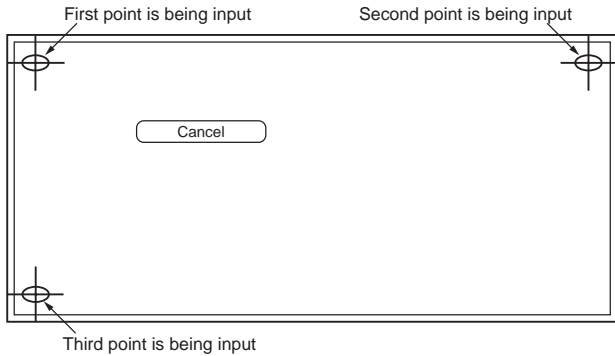
**Note:** The key arrangements are somewhat different between OSD model and Graphic model.

# TEST MODE

## ● Touch Screen

- Touch variances in different sets are adjusted.  
Touch the markers for three points in order. When EEPROM OK screen is displayed, adjustment is complete.

Touch input in progress



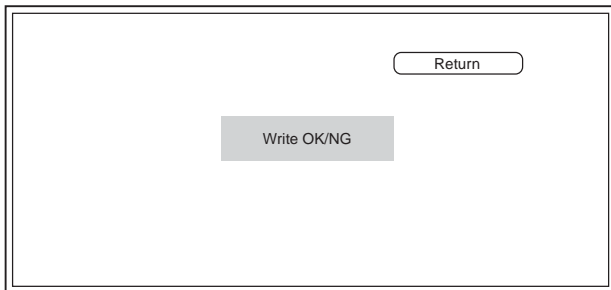
### Key Specification

Cancel:

The first point is being input. Test Mode Main Screen is displayed.

The second point is being input which will move on. Transit to the first point being input.

EEPROM writing complete OK/NG Screen



### Key Specification

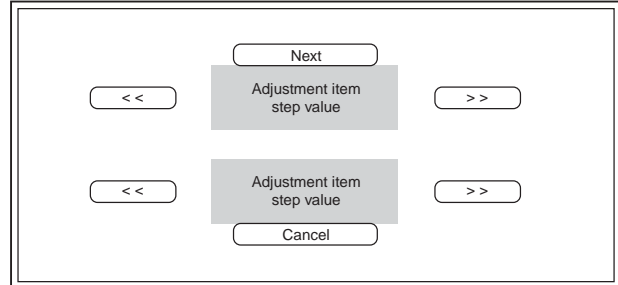
Return: Test Mode Main Screen is displayed.

**Note:** When NG, enter the Test Mode again, and re-do from the beginning.

## ● Hposi Screen

- Horizontal position for each screen is adjusted.

Hposi Adjustment screen



### Key Specification

Next: To next Hposi adjustment screen. When in NAVI screen, EEPROM writing will begin.

<< : The screen moves to the left.

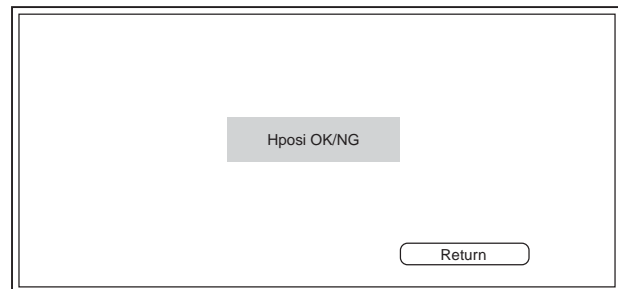
>> : The screen moves to the right.

Cancel: Test Mode Main Screen is displayed.

**Note:** The key arrangements are somewhat different with OSD model and Graphic model. (With the Graphic model, one adjustment item per one screen.)

**Note:** There is no need for the upper column (Graphic) of the first adjustment screen of the OSD model to be adjusted.

EEPROM writing complete OK/NG Screen



### Key Specification

Return: Test Mode Main Screen is displayed.

**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

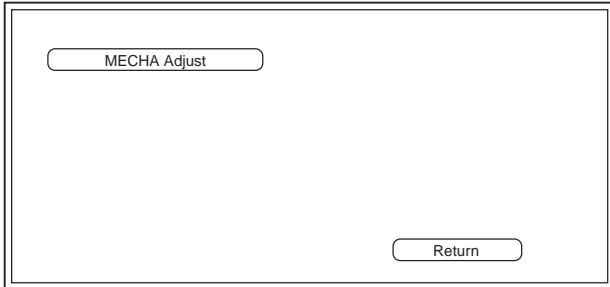
**Note:** The key arrangements are somewhat different with OSD model and Graphic model.

# TEST MODE

## ● MECHA ADJ Screen (2DIN only)

- Panel mecha position adjustment is to be conducted.

MECHA ADJ screen

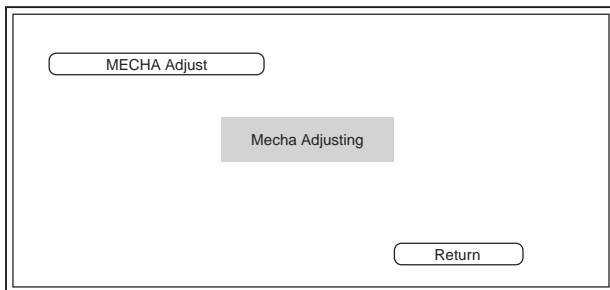


### Key Specification

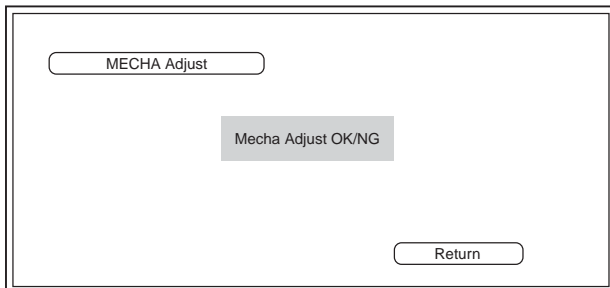
MECHA Adjust: Mecha position adjustment will begin.

Return: Test Mode Main Screen is displayed.

MECHA Adjust in progress



MECHA Adjust complete



**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

## ● Chroma Screen

- Chroma data adjustment will be conducted.
- Adjustment is conducted with a remote controller (AudioSW).

**Note:** Chroma data on the EEPROM can be cleared with the Clear key in the Service screen.



### Key Specification (Remote Controller)

Direct : Chroma IC Adjustment Mode ON/OFF (EEPROM writing)

Play/Pause: Chroma setting value Confirm/Rehearse

Tenkey 7: Chroma adjustment To the next item.

Tenkey 8: Chroma setting value change (UP)

Tenkey 9: Chroma adjustment To the next item.

Tenkey 0: Chroma setting value change (DW)

## ● Source / Set Up / Audio Screen

- The same as the normal screen (Other than Test Mode). However, when SetUp key and Audio key are pressed, returns to Test Mode Main screen.

## ● Security Code Writing Screen

- Security code is managed in pair with serial number. Security Code is written in this screen. (Other than K/R destinations)
  - From Set Up screen, press Security Set Up key.
  - In case of other than K/R destinations, only when EEPROM Security Code is blank, Set key is displayed. Press the key.
  - The same operation as the regular Security Code registration is to be conducted in the Security Code Writing screen. When Enter key is pressed, writing begins.
- Note:** The Security Code to be input here must be the unique code of the set liked with the serial number.
- When "Complete" is displayed, normal ending. When NG is displayed, error.

**Note:** In case of NG, enter the Test Mode again and re-do from the beginning.

# ADJUSTMENT

## ● Adjustment item

1. Chroma IC adjustment (X14)  
(A remote controller is used for adjustment, while confirming on the waveform with an oscilloscope.)
2. Freerun adjustment (X35)  
(A variable resistor is used for adjustment while confirming on the waveform with an oscilloscope.)
3. Flicker adjustment  
(A remote controller is used for adjustment, while confirming on the waveform with an oscilloscope.)
4. Screen position adjustment  
(A touch panel is used for adjustment, while confirming the screen.)
5. Touch Panel Adjustment  
(A touch panel is used for adjustment.)

## 1. Chroma IC Adjustment Procedure (X14)

1. While pressing on the [ATT] + [SRC] keys on the unit, reset to enter the Test Mode.
  2. Press [DIRECT] key on the TV remote controller to get into the Chroma IC Adjustment mode.  
→ At this point "CH : 16 VCO\_FREERUN VAL 80" is displayed on upper left corner. (VAL value is displayed in HEX.)
  3. Perform adjustments in Tables A~M in the order of a~c, one by one.
    - a. Use [8] and [0] of 10Key to change the setting value. → The values in the VAL on the upper left corner of screen.
    - b. Press [PLAY/PAUSE] key to confirm the setting values.  
→ When confirmed, the color of "CH : 16 VCO\_FREERUN VAL 80" changes.  
Press [PLAY/PAUSE] key once more to release.
    - c. Use [7] and [9] of 10Key to move to the next setting. → The CH value in the upper left corner of screen changes.
  4. Press [DIRECT] key to write data to E2PROM.
  5. Press [DIRECT] key again to move out of Chroma Adjustment mode.
- \* Conduct this in AUDIO mode using TV/NAVI remote controller.

	Adjustment Item	Test Mode Display	Adjustment Method	Adjustment Value (Temporary)	Condition
A	Chroma VCO Adjustment	CH : 16	Connect TP: HD between R249 and R250 and TP: VD between R248 and R251 to GND. Measure TP: TC_HD of IC237 32 pin with a frequency counter.	NTSC type 15.734±50Hz PAL type 15.625±50Hz	Input signal : None Input signal : 10 STEP (NTSC)
F	Y GCA (Brightness Gain) Adjustment	CH : 2	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 10.	2.6V±0.05V	1Vpp V/S ratio : 7:3 (75Ω terminated) X34 AVIN input
B	Brightness Adjustment	CH : 6	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side Step 1 and reverse rotation-side Step 1.	3.2V±0.05V	Oscilloscope range : 500mV/DIV AC
C	Contrast Adjustment	CH : 13	Monitor TP: VG waveform of 59 pin of CN905 with an oscilloscope and adjust the oscillation with of forward rotation-side Step 8 and reverse rotation-side Step 8.	3.0V±0.05V	
D	Black Limiter Adjustment	CH : 5	Maintain and confirm 7F and move on to the next step.	7F	
E	White Limiter Adjustment	CH : 10	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side Step 9 and reverse rotation-side Step 9.	3.2V±0.05V If lower than 3.2V, finalize with 7F. (However, 2.7V or less is NG.)	



## ADJUSTMENT

	Adjustment Item	Test Mode Display	Adjustment Method	Adjustment Value (Temporary)	Condition
G	Gamma 1 Adjustment	CH : 11	Monitor waveform of 59 pin TP: VG of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 9.	3.0V±0.05V	Input signal : None Input signal : 10 STEP (NTSC)
H	Gamma 2 Adjustment	CH : 12	Monitor TP: VG waveform of 59 pin of CN905 with an oscilloscope and adjust the oscillation width of forward rotation-side pedestal and forward rotation-side Step 10.	3.3V±0.05V	1Vpp V/S ratio : 7:3 (75Ω terminated)
I	R Sub-Brightness Adjustment	CH : 8	Monitor waveform of 58 pin TP: VR and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal of Step 1 of the forward rotation side of TP: VR will be 0.1Vpp higher than the pedestal of Step 1 of the forward rotation side of TP: VG.	0.1V±0.05V	X34 AVIN input Oscilloscope range : 500mV/DIV AC
J	B Sub-Brightness Adjustment	CH : 9	Monitor waveform of 60 pin TP: VB and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 1 of the forward rotation side of TP: VB will be the same as the pedestal to Step 1 of the forward rotation side of TP: VG.	0V±0.05V	
K	R Sub-Contrast Adjustment	CH : 14	Monitor waveform of 58 pin TP: VR and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 9 of the forward rotation side of TP: VR will be 0.1Vpp higher than the pedestal to Step 9 of the forward rotation side of TP: VG.	0.1V±0.05V	
L	B Sub-Contrast Adjustment	CH : 15	Monitor waveform of 60 pin TP: VB and 59 pin TP: VG of CN905 with an oscilloscope and adjust so that the pedestal to Step 9 of the forward rotation side of TP: VB will be the same as the pedestal to Step 9 of the forward rotation side of TP: VG.	0V±0.05V	
M	V-COM Amplitude Adjustment	CH : 1	Monitor waveform of 39 pin TP: VCOM of CN905 with an oscilloscope and adjust the oscillation width of the VCOM rectangular wave.	2.15Vpp±0.05V	

# ADJUSTMENT

## 2. Freerun Frequency Adjustment (X35: VR301)

No.	Adjustment Method	Measurement Location			Adjustment Location	Adjustment Value
		Timing controller IC301	1DIN X35-448	2DIN X35-458		
1	Set TP of NVD TP as no input and connect to PON3.3V.  Set TP of NHD TP as no input and connect to PON3.3V.	NVD (21pin)	TP363B	TP55		
		NHD (22pin)	TP304B	TP17		
2	Adjust frequency of HSYNC with a frequency counter.	NDSH (9pin)	TP307B	TP106	VR301	15.734kHz±0.01kHz (NTSC type)  15.625kHz±0.01kHz (PAL type)

## 3. Flicker Adjustment (X35: VR203)

Condition (As usual)

Video source: VIDEO  
Video: Luster white 30~50%  
BRIGHT: MAX  
MODE: ZOOM

Screen Adjustment Key (HPOSI)

: Horizontal display start position adjustment of entire screen

OSD Adjustment Key

: Horizontal display start position adjustment of OSD only

### Adjustment Procedure

1. Set to the above condition.
2. Vary VR203 and adjust so that the side width that appear on screen top would become smallest.

### About the video for adjustment screen

DVD: Monoscope (TDV-540A, Title : 2, Chapter : 16)

TV: Monoscope

VIDEO1: Monoscope

Navigation: Input KNA-DV3200

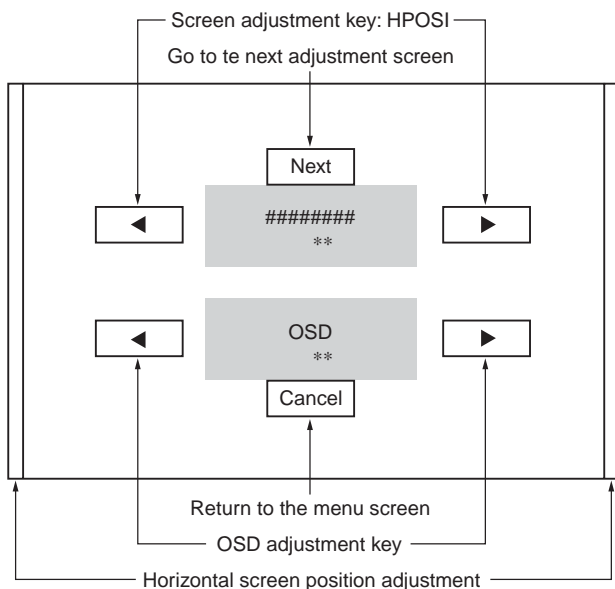
\* For NTSC area destination: NTSC video

For PAL area destination : PAL video

\* As for TV tuner Box, use the TV Tuner Box suited for each destination.

\* NAVI screen is NAVI Menu Screen.

## 4. Horizontal Display Start Position and OSD Display Position Adjustment



### Adjustment Procedure

1. Press HPOSI on Test Mode Menu Screen.
2. Adjust HPOSI display start position of the following five; Graphic/DVD/TV/VIDEO/Navigation.

#### 3-1. Graphic

Use OSD key to adjust so that background is not seen on both sides of screen.

HPOSI key is not to be used. Pay attention not to used it, as it can be operated on.



NG



NG



OK

# ADJUSTMENT

## 3-2. DVD

Insert TDV540 disk and, when a picture of an airplane appears, and press 4-key on the remote controller. (DVD Mode) Then, Monoscope is displayed.

At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the Monoscope is symmetric on right and left sides.

## 3-3. TV/VIDEO

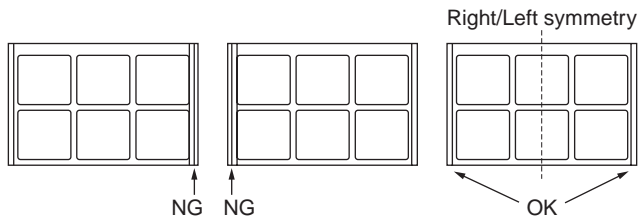
At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the Monoscope is symmetric on right and left sides.

## 3-4. NAVI

At first, use OSD key to adjust so that background is not seen on both sides of screen.

Then, use the Screen Adjustment key so that the NAVI Menu screen is symmetric on right and left sides.



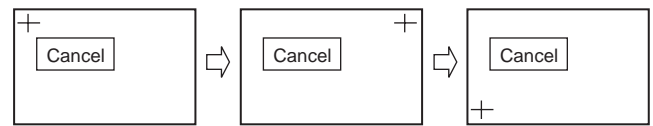
After adjustment, press the [Next] key. If "Hposi OK" is displayed, the adjustment is complete.

**Note:** If the display does not come at the dead center when adjusting the horizontal display start position (when adjusting one step left, the picture is to the left and, when adjusting one step to the right, the picture is to the right), press [NEXT] key with the position to the right and finalize the adjustment. (This is the condition in which the screen is to the right by one or two dots.)

## 5. Touch Panel Adjustment

### Adjustment Procedure

1. Press the Touch Key in the Menu screen of the Test Mode and enter the Touch Panel Adjustment screen.
2. Touch the center section of the +-mark below in the following order.  
Upper left → Upper right → Lower left.  
When making the touch, be use to use the touch stick designated.
3. After adjusting at three points, when "Write OK" is displayed, the adjustment is complete.  
By pressing Return, Touch adjustment will be exited.



\* If the central section of the +-mark has not be pressed accurately, press Cancel and re-do from the beginning.

### Note:

As far as the Touch Panel Adjustment data is concerned, the data is finalized when the touch is let go.

For this reason, the knack for adjustment is not to let go the touch after touching the center section of the +-mark.

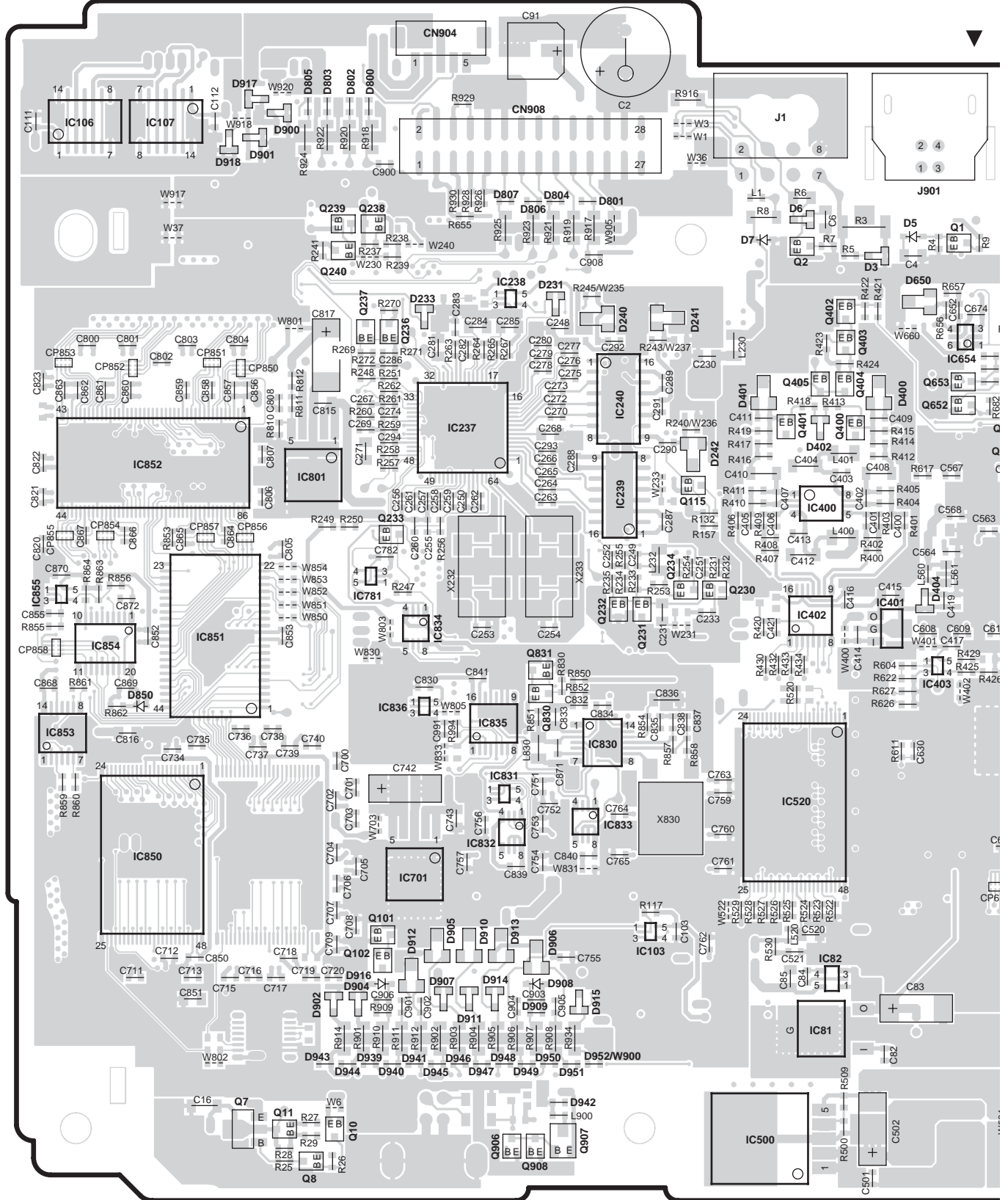
After making the touch, first confirm that the touch is at the dead center of the +-mark.

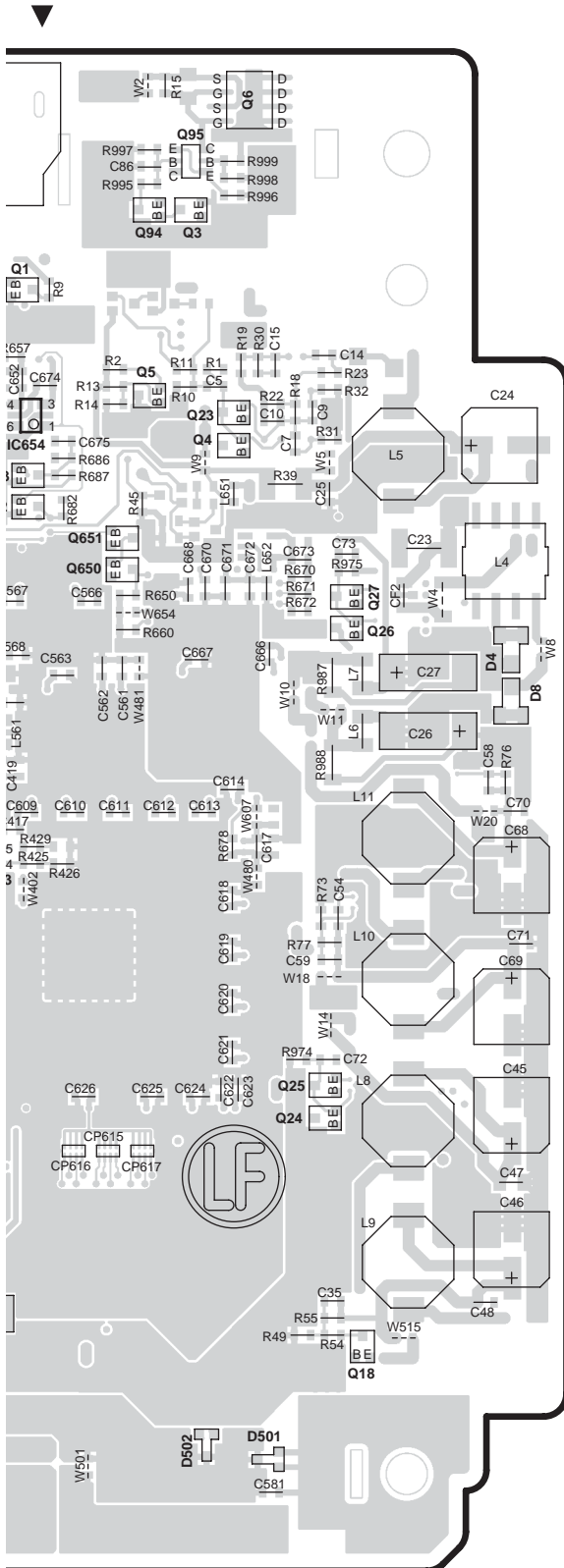
(This means that, if the touch is not at the dead center of the +-mark, maintain the touch, and slide the stick to the dead center of the +-mark.)

Then, let the touch go quickly, vertically upward.

# PC BOARD (COMPONENT SIDE VIEW)

## VIDEO CONTROL UNIT X14-955/956x-xx (J76-0103-12)





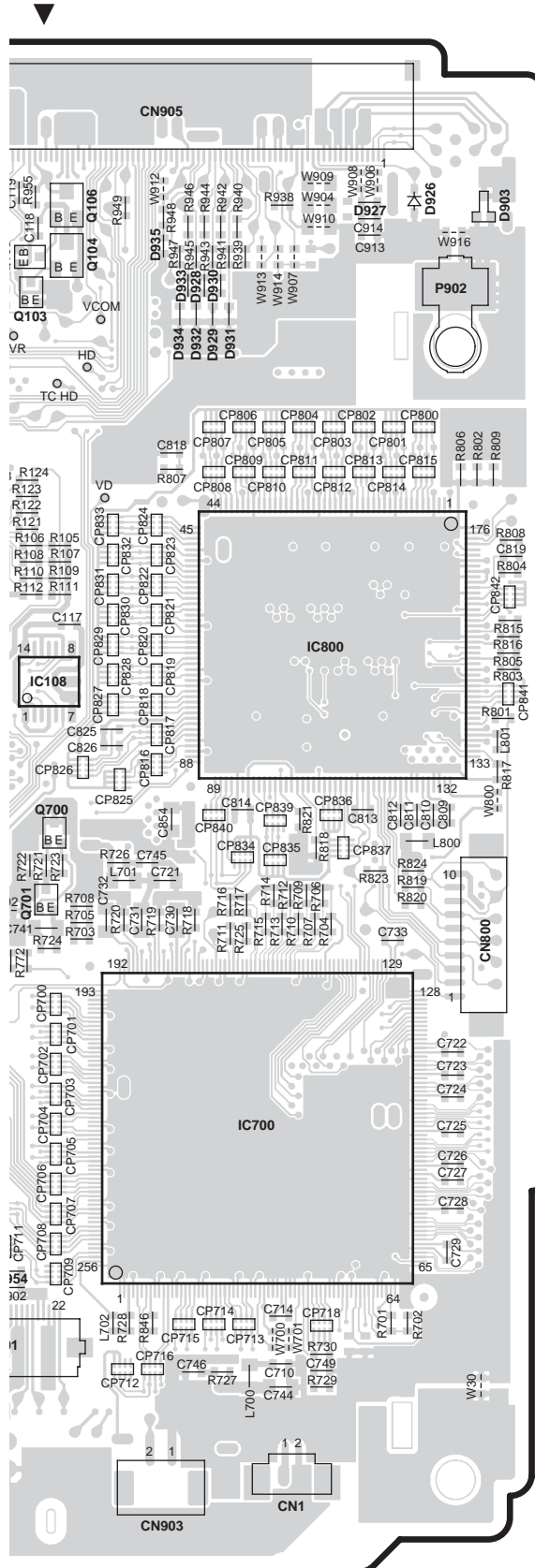
## X14-955/956x-xx

Ref. No.	Address	Ref. No.	Address
IC81	6E	Q6	2F
IC82	6E	Q7	6B
IC103	6D	Q8	7B
IC107	2B	Q10	6B
IC237	3C	Q11	6B
IC238	3C	Q23	3F
IC239	4D	Q24	5G
IC240	3D	Q25	5G
IC400	4E	Q26	4G
IC401	4E	Q27	3G
IC402	4E	Q94	2F
IC403	4E	Q95	2F
IC500	7D	Q115	4D
IC520	5E	Q230	4D
IC654	3E	Q231	4D
IC701	5C	Q232	4D
IC781	4C	Q233	4C
IC801	4B	Q234	4D
IC830	5D	Q236	3C
IC831	5C	Q237	3C
IC832	5C	Q238	2C
IC833	5D	Q239	2B
IC834	4C	Q240	3B
IC835	5C	Q400	3E
IC836	5C	Q401	3E
IC850	5B	Q402	3E
IC851	4B	Q403	3E
IC852	3B	Q404	3E
IC853	5A	Q405	3E
IC854	4A	Q650	3F
IC855	4A	Q651	3F
Q1	2E	Q652	3E
Q2	3E	Q653	3E
Q3	2F	Q830	5C
Q4	3F	Q831	4C
Q5	3F		

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







## X14-955/956x-xx

Ref. No.	Address	Ref. No.	Address
IC1	3L	Q81	2N
IC2	5K	Q82	2N
IC3	4K	Q83	2N
IC9	5K	Q84	2N
IC80	2O	Q85	2N
IC101	4N	Q86	2N
IC104	3O	Q87	2N
IC105	4N	Q88	2O
IC108	4P	Q89	2O
IC470	6M	Q90	2O
IC560	4M	Q91	2N
IC601	5M	Q92	2O
IC640	4N	Q93	2N
IC641	4N	Q103	2O
IC650	3M	Q104	2P
IC651	2L	Q105	2O
IC652	4L	Q106	2P
IC700	5P	Q107	4O
IC750	5O	Q108	4O
IC751	5N	Q109	3N
IC770	4N	Q110	4N
IC771	4N	Q111	3N
IC772	5N	Q112	3M
IC773	4N	Q113	4N
IC774	4O	Q114	4O
IC779	5N	Q171	2O
IC800	3Q	Q173	3N
Q9	3L	Q700	4P
Q13	3K	Q701	4O
Q16	5K	Q771	4O
Q19	6K	Q772	4O
Q20	3K	Q901	3M
Q22	4K	Q902	3N
Q80	2N		

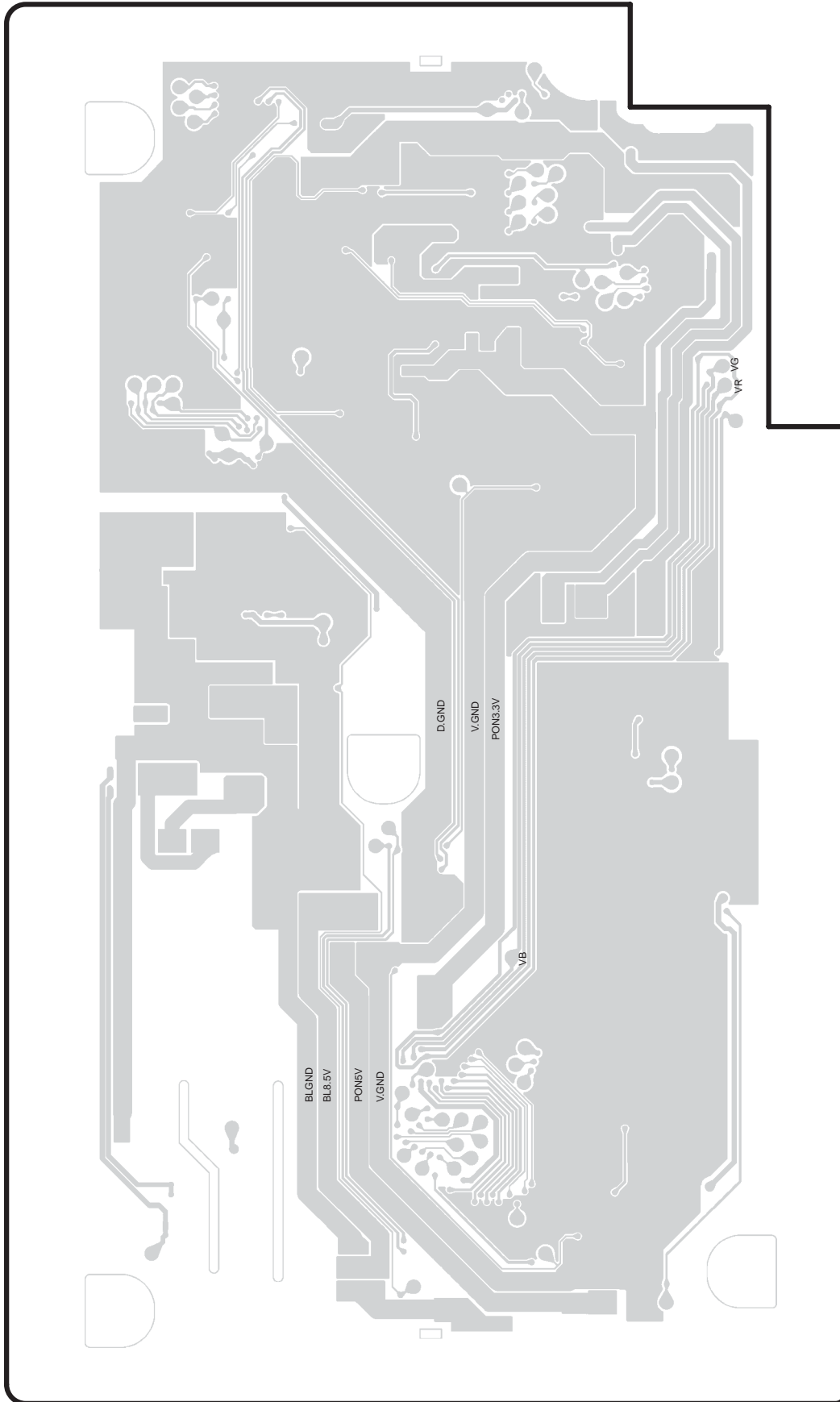
Refer to the schematic diagram for the values of resistors and capacitors.





# PC BOARD (FOIL SIDE VIEW)

VIDEO UNIT X35-458/459x-10 A/3 (J76-0126-12)

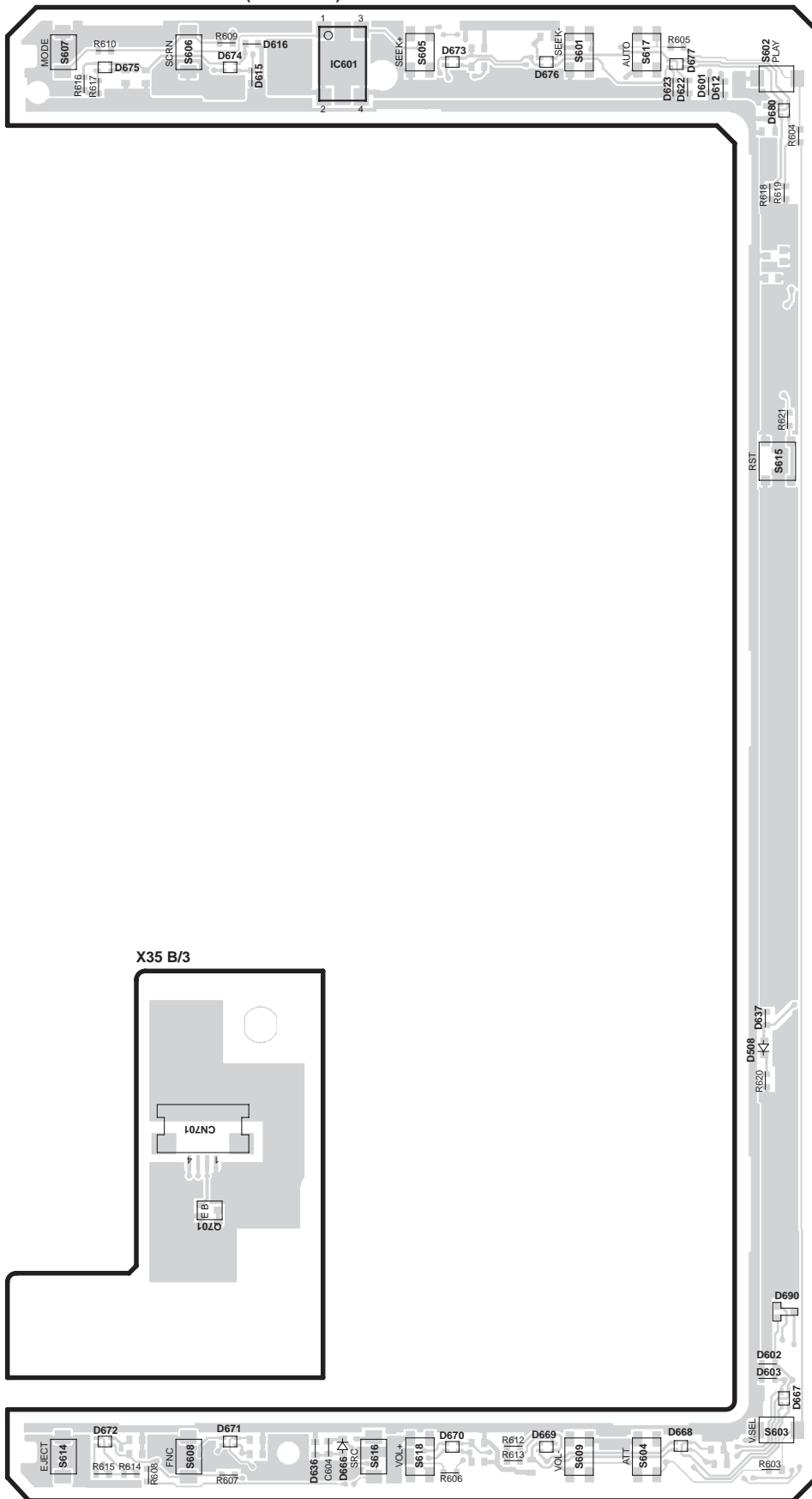


Refer to the schematic diagram for the values of resistors and capacitors.

DDX8017/8027/8027Y  
DDX8037/8047/8067

# PC BOARD (COMPONENT SIDE VIEW)

VIDEO UNIT X35-458/459x-10 C/3 (J76-0126-12)



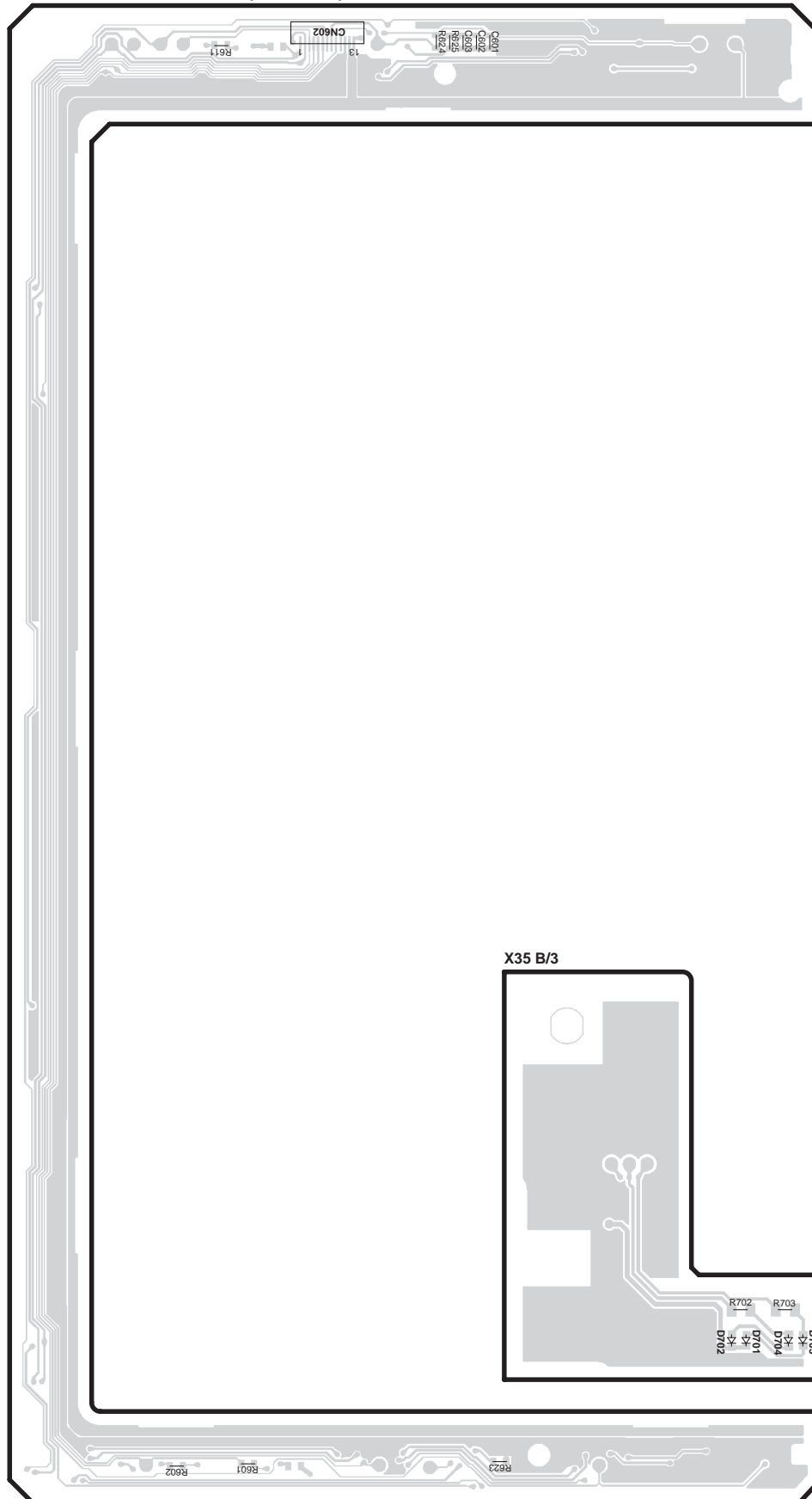
X35-458/459x-10 (B,C/3)

Ref. No.	Address
IC601	2AF
Q701	6AF

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

# PC BOARD (FOIL SIDE VIEW)

VIDEO UNIT X35-458/459x-10 C/3 (J76-0126-12)

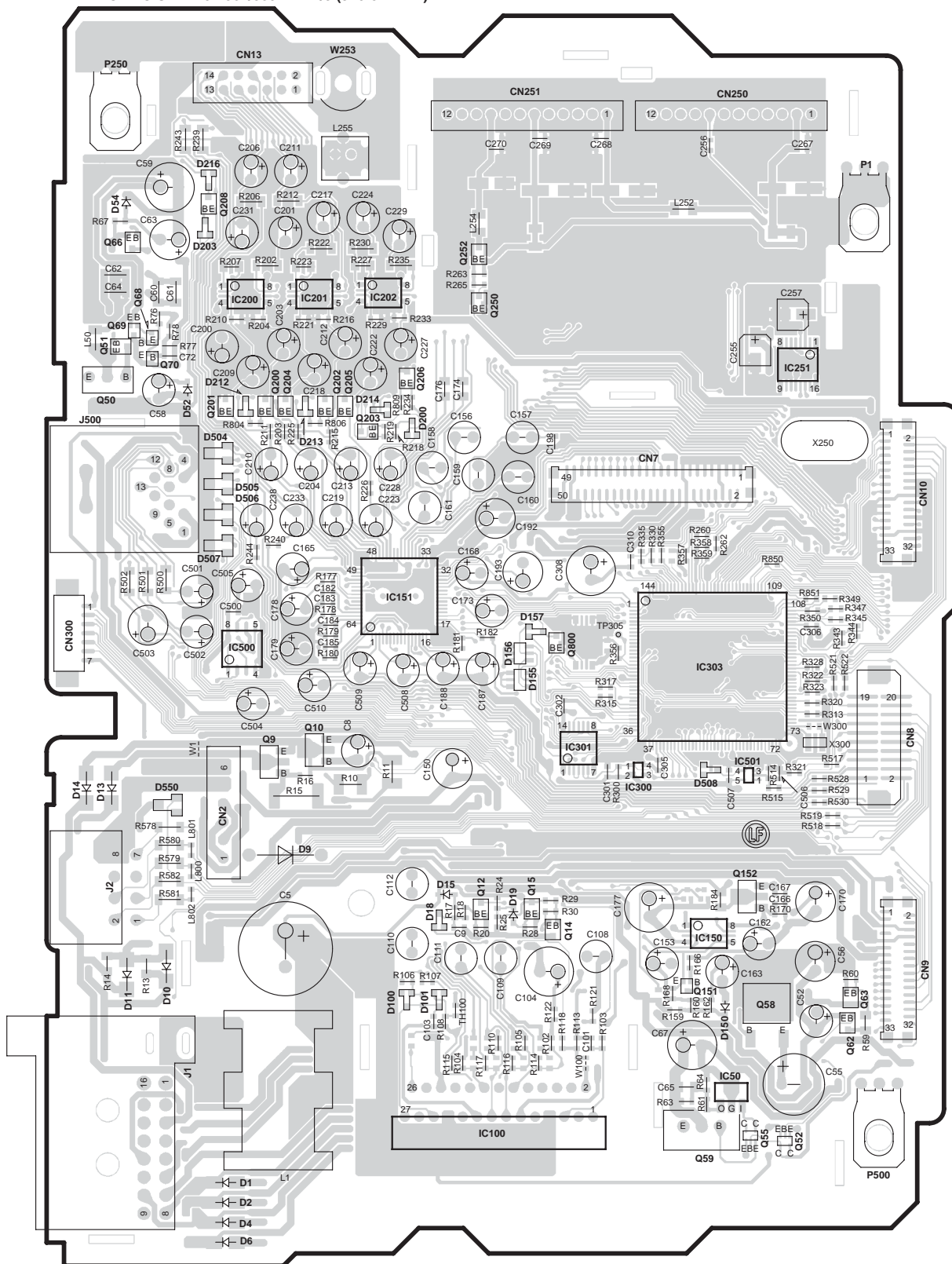


Refer to the schematic diagram for the values of resistors and capacitors.

DDX8017/8027/8027Y  
DDX8037/8047/8067

## PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT X34-382/383x-xx A/3 (J76-0127-12)



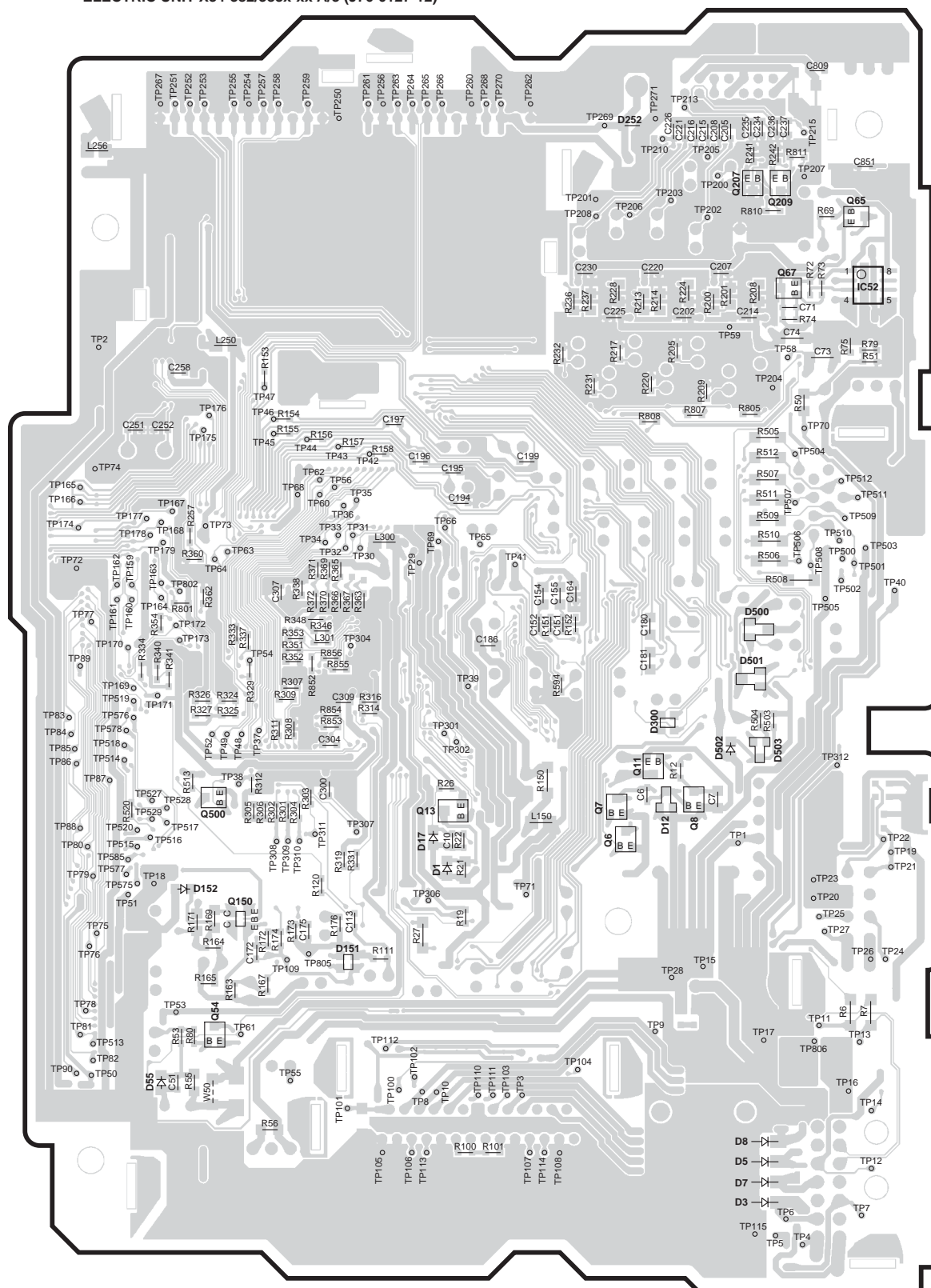
X34-382/383x-xx (A/3)

Ref. No.	Address
IC50	6AR
IC100	6AQ
IC150	5AR
IC151	4AP
IC200	3AP
IC201	3AP
IC202	3AP
IC251	3AR
IC300	5AQ
IC301	4AQ
IC303	4AR
IC500	4AP
IC501	5AR
Q9	4AP
Q10	4AP
Q12	5AQ
Q14	5AQ
Q15	5AQ
Q50	3AO
Q51	3AO
Q52	6AR
Q55	6AR
Q58	6AR
Q59	6AR
Q62	6AR
Q63	6AR
Q66	2AO
Q68	3AO
Q69	3AO
Q70	3AO
Q151	6AR
Q152	5AR
Q200	3AP
Q201	3AP
Q202	3AP
Q203	3AP
Q204	3AP
Q205	3AP
Q206	3AQ
Q208	2AP
Q250	3AQ
Q252	2AQ
Q800	4AQ

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

## PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-382/383x-xx A/3 (J76-0127-12)



X34-382/383x-xx (A/3)

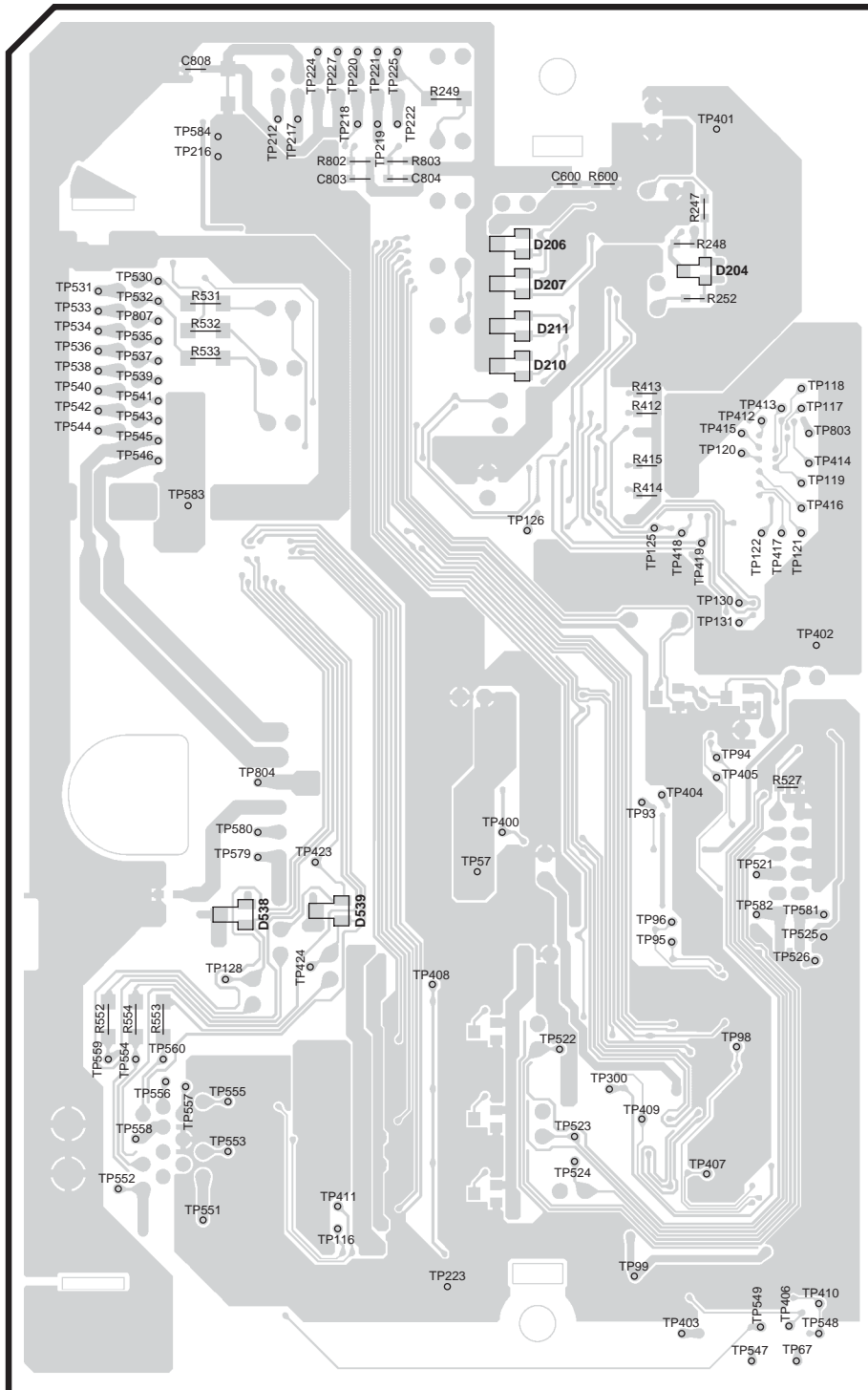
Ref. No.	Address
IC52	2AW
Q6	5AV
Q7	5AV
Q8	5AV
Q11	4AV
Q13	5AU
Q54	6AT
Q65	2AW
Q67	2AW
Q150	5AT
Q207	2AW
Q209	2AW
Q500	5AT

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

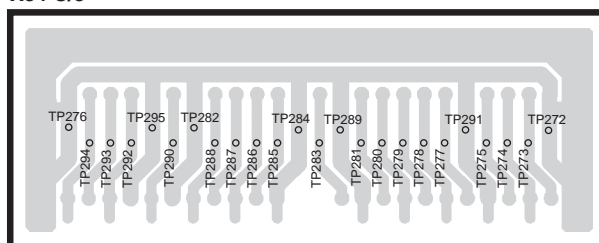


# PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-382/383x-xx B/3 (J76-0127-12)



X34 C/3



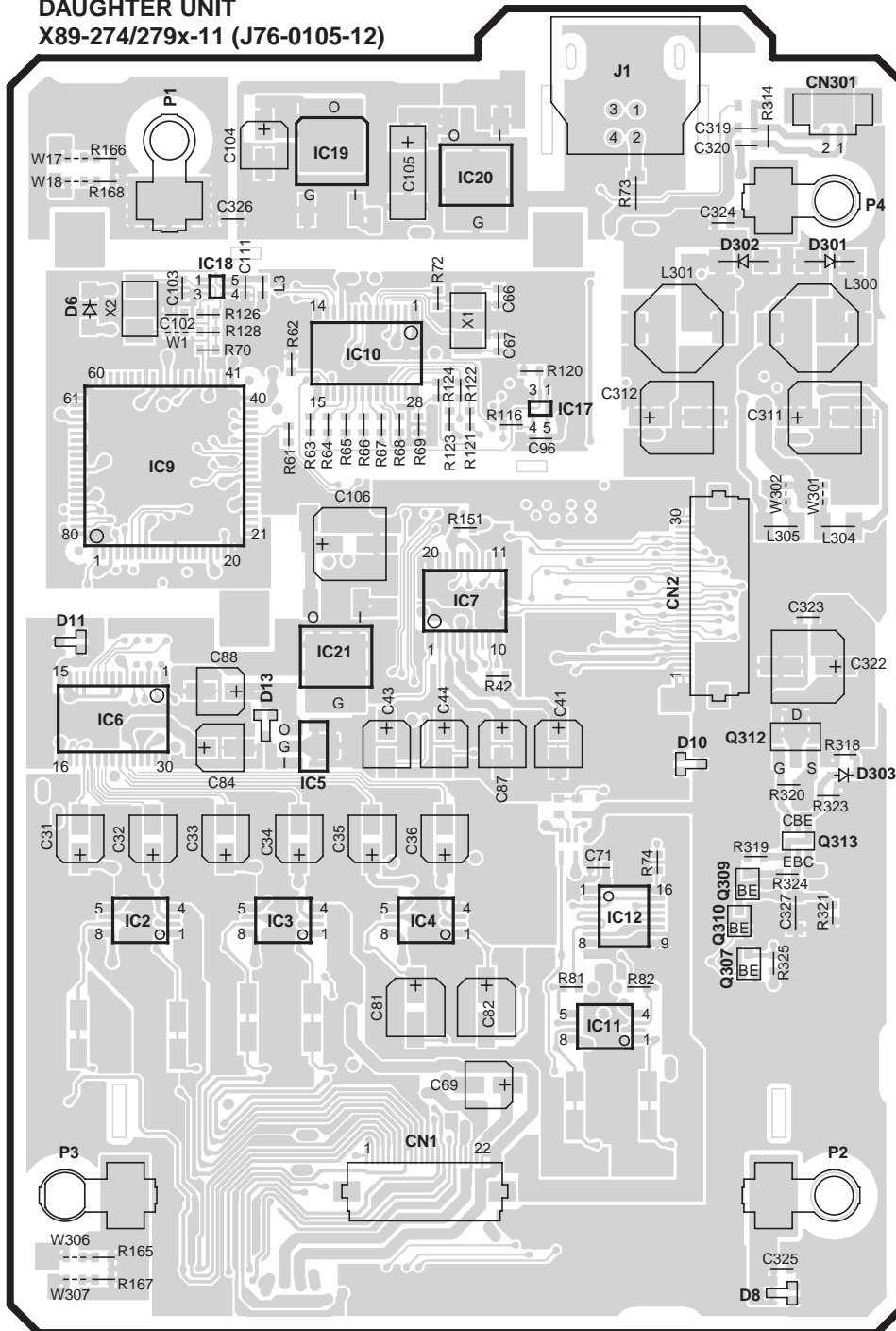
Refer to the schematic diagram for the values of resistors and capacitors.



DDX8017/8027/8027Y  
DDX8037/8047/8067

# PC BOARD (COMPONENT SIDE VIEW)

DAUGHTER UNIT  
X89-274/279x-11 (J76-0105-12)



X89-274/279x-11

Ref. No.	Address
IC2	5BJ
IC3	5BJ
IC4	5BK
IC5	4BJ
IC6	4BI
IC7	3BK
IC9	3BJ
IC10	3BJ
IC11	5BK
IC12	4BK
IC17	3BK
IC18	2BJ
IC19	2BJ
IC20	2BK
IC21	4BJ
Q307	5BL
Q309	4BL
Q310	5BL
Q312	4BL
Q313	4BL

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

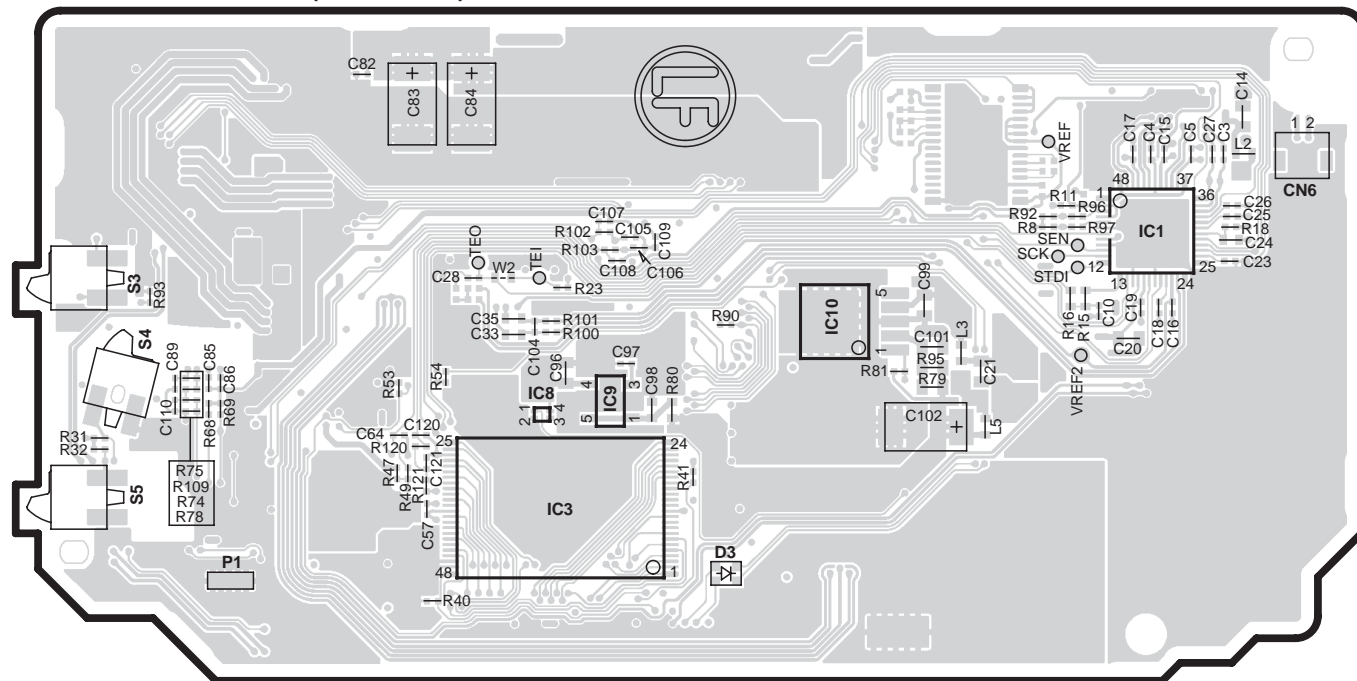




DDX8017/8027/8027Y  
DDX8037/8047/8067

# PC BOARD (COMPONENT SIDE VIEW)

DVD UNIT X37-1070-00 (J76-0067-12)



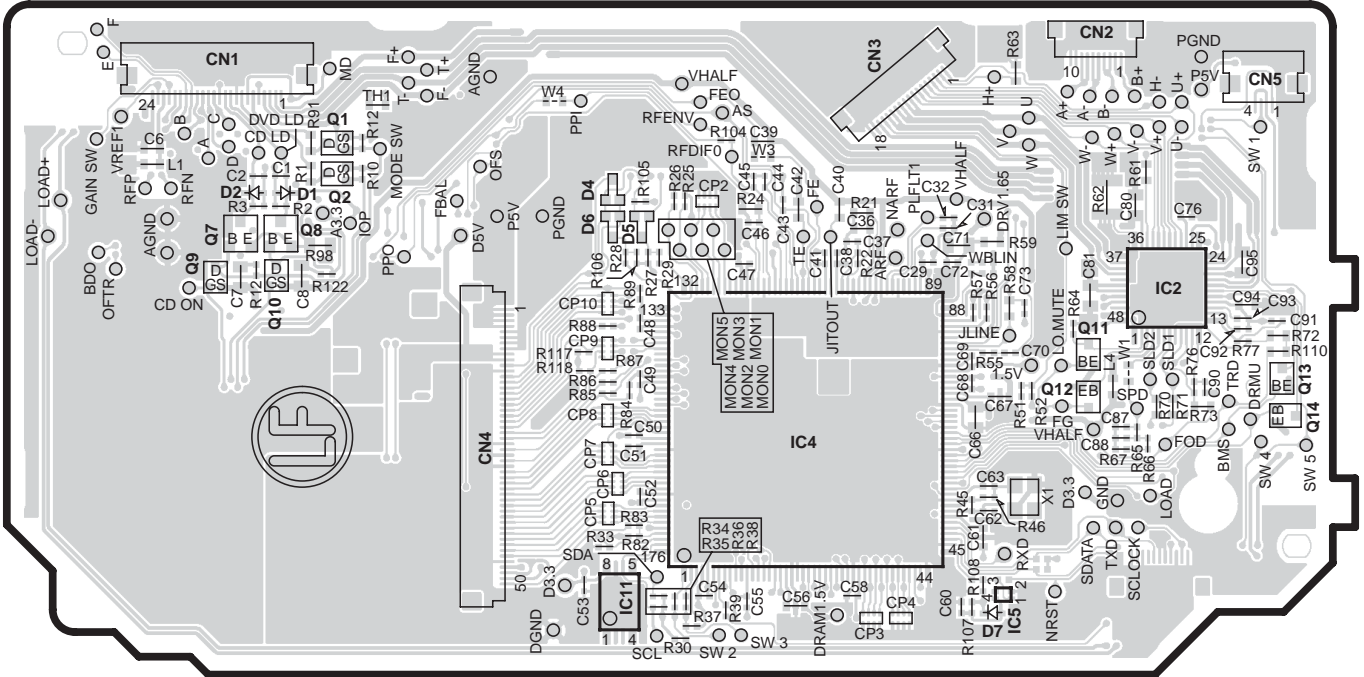
X37-1070-00

Ref. No.	Address
IC1	2BW
IC3	3BU
IC8	3BU
IC9	3BU
IC10	2BV

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

# PC BOARD (FOIL SIDE VIEW)

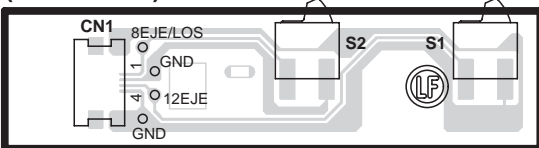
## DVD UNIT X37-1070-00 (J76-0067-12)



### X37-1070-00

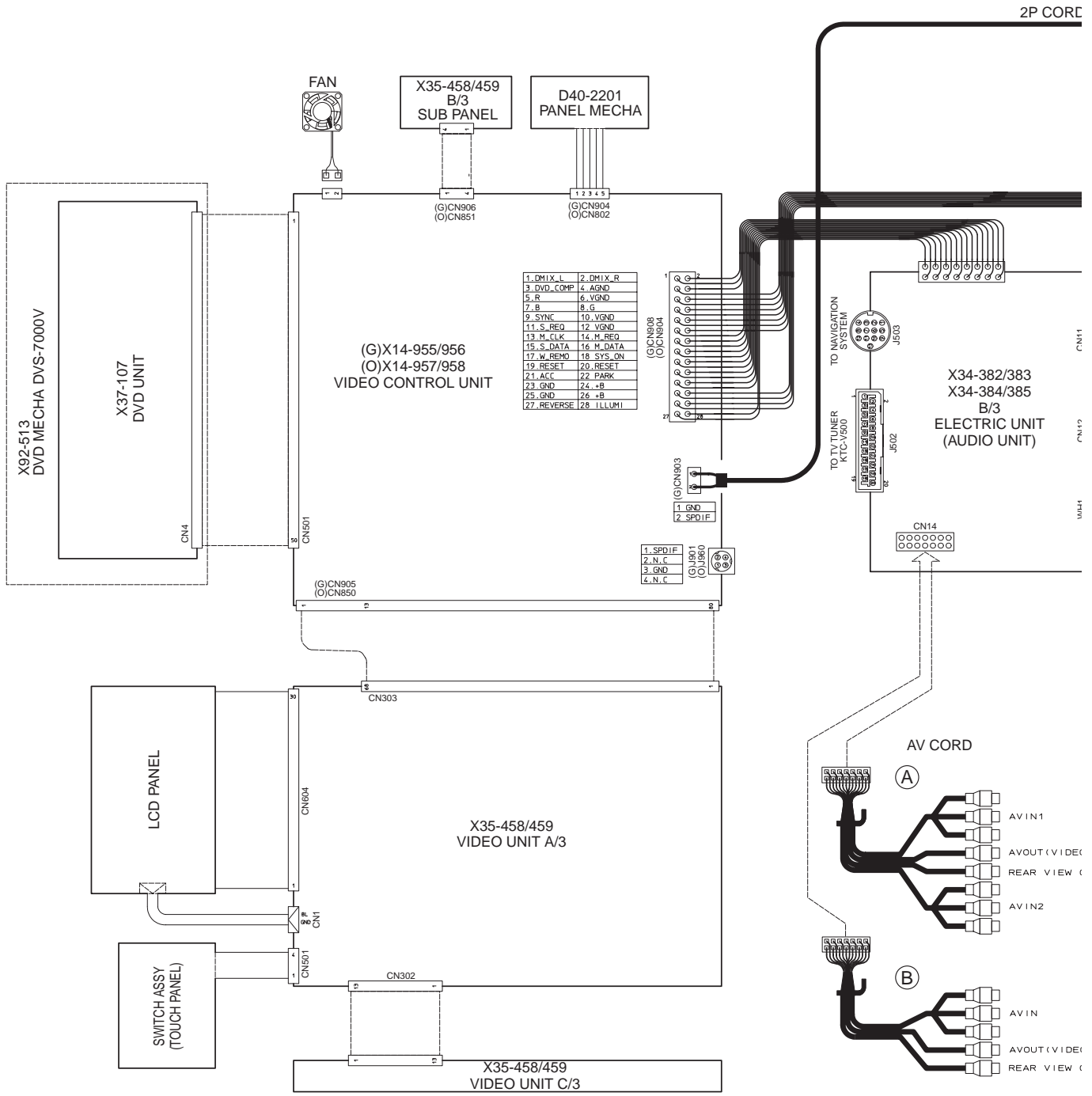
Ref. No.	Address
IC2	2CA
IC4	3BZ
IC5	3CA
IC11	3BZ
Q1	2BY
Q2	2BY
Q7	2BX
Q8	2BY
Q9	2BX
Q10	2BX
Q11	2CA
Q12	3CA
Q13	3CB
Q14	3CB

## SWITCH UNIT X16-2380-00 (J74-1537-02)



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

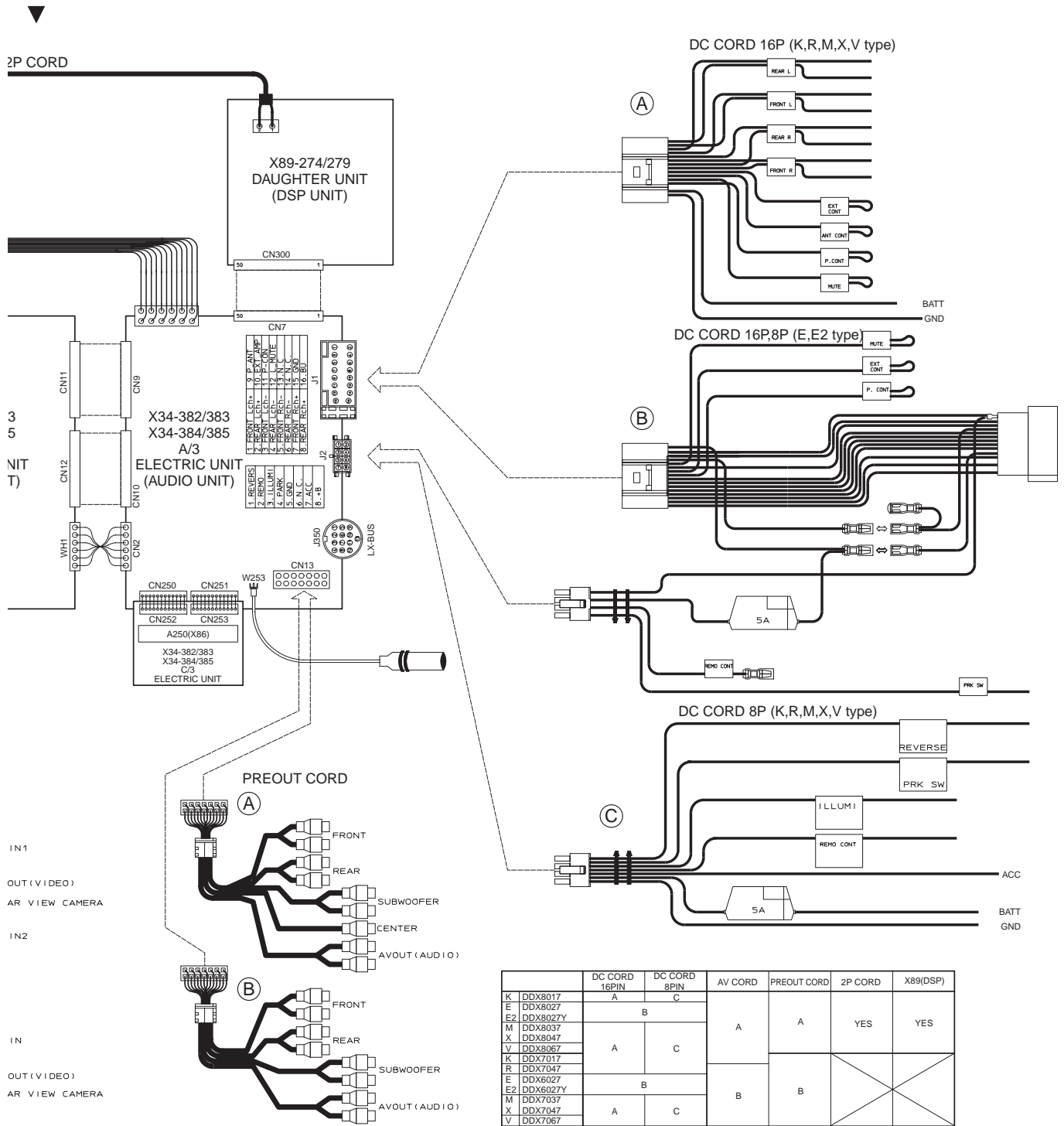
# INTERCONNECTION DIAGRAM



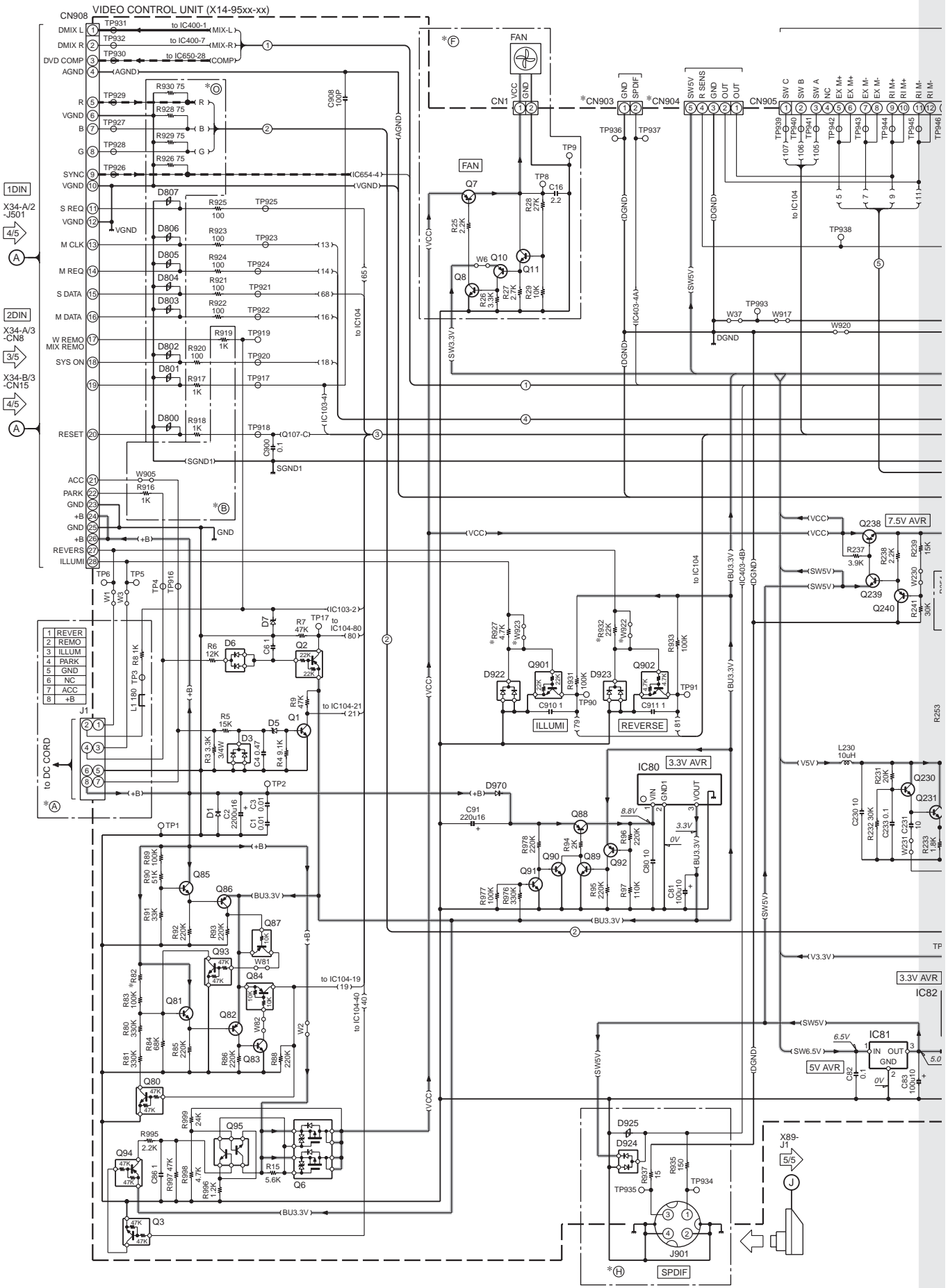
2P CORC



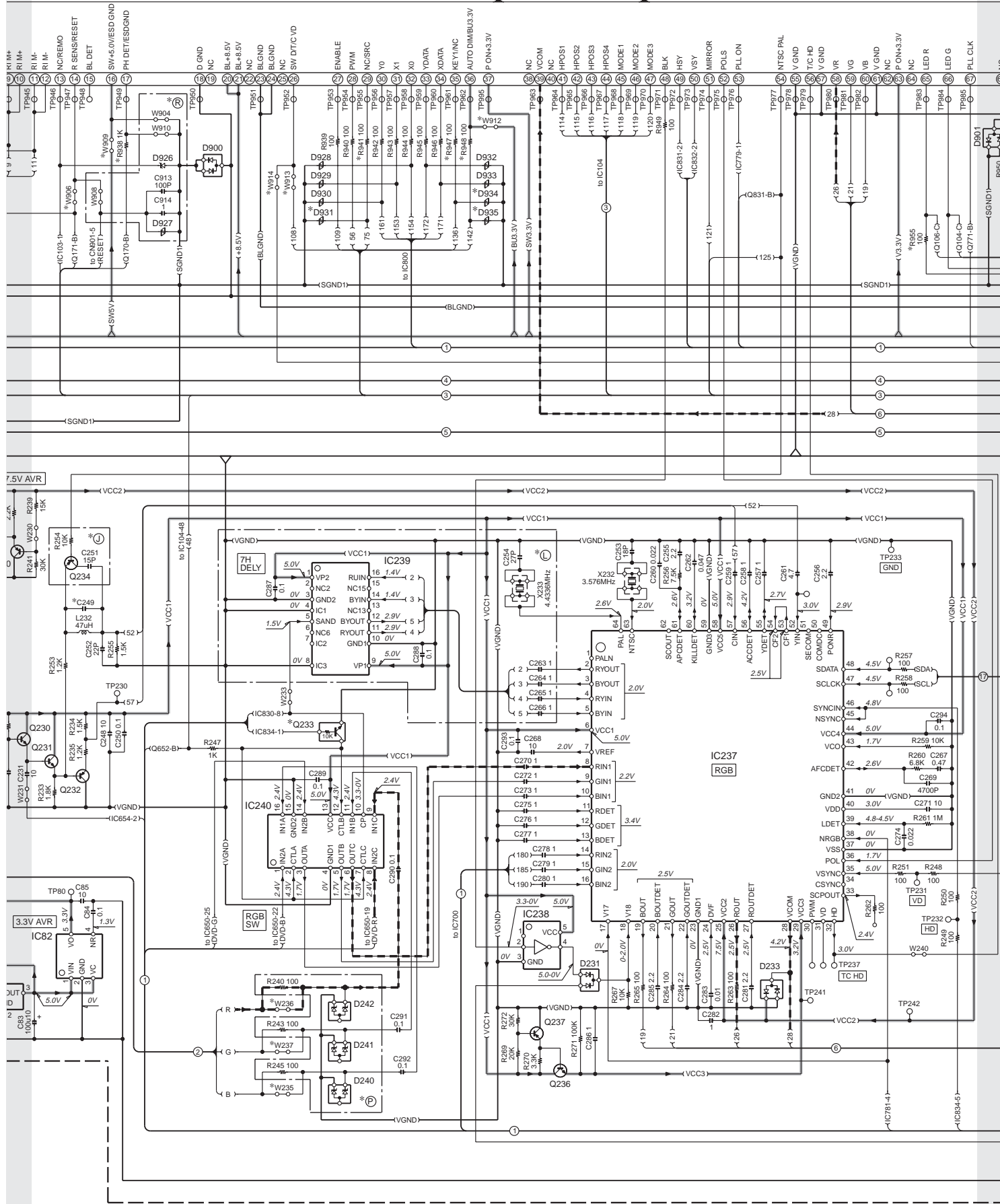
# INTERCONNECTION DIAGRAM



DDX8017/8027/8027Y  
DDX8037/8047/8067

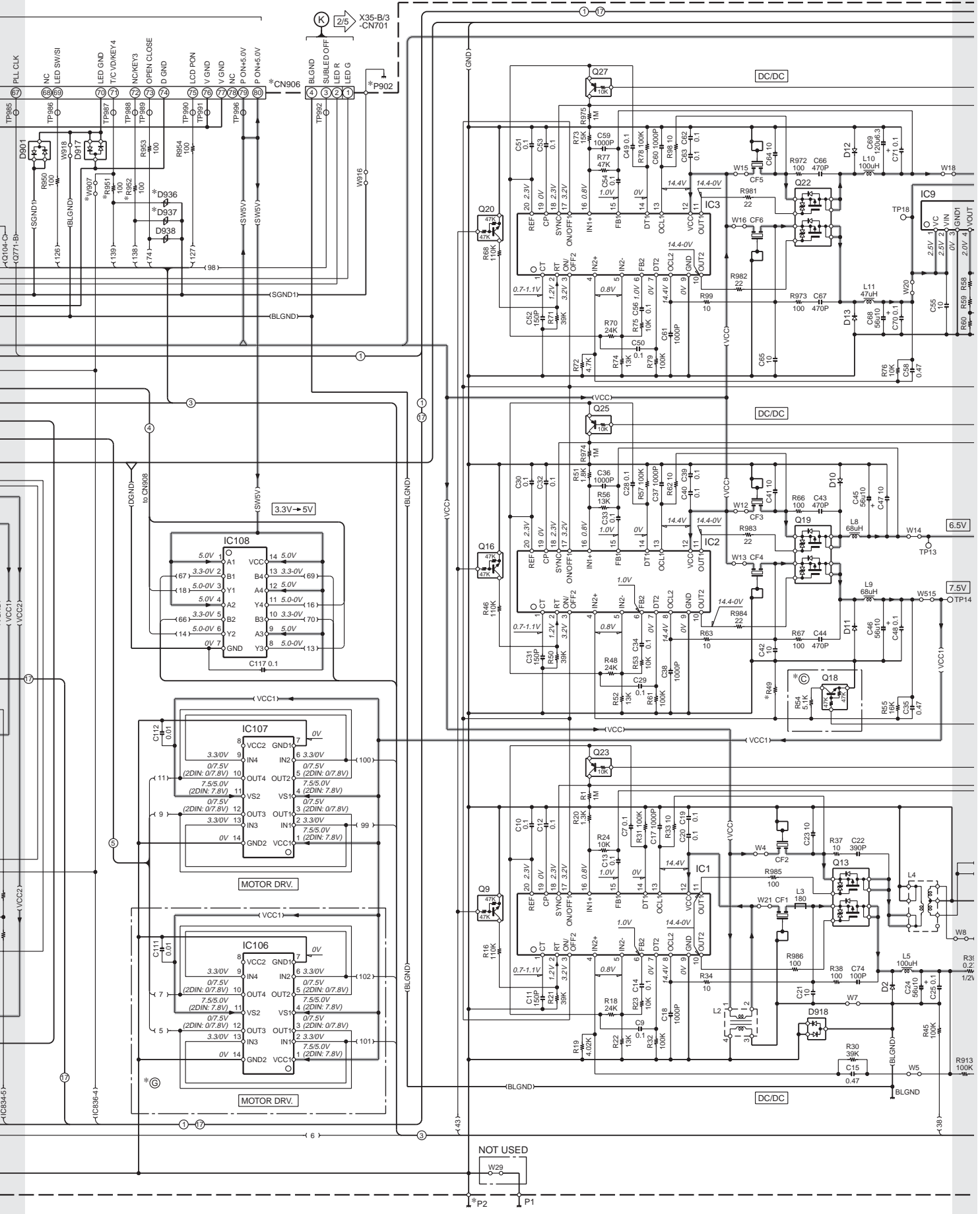


1DIN B 3/5 X35-A/3 -CN301  
2DIN B 2/5 X35-A/3 -CN301

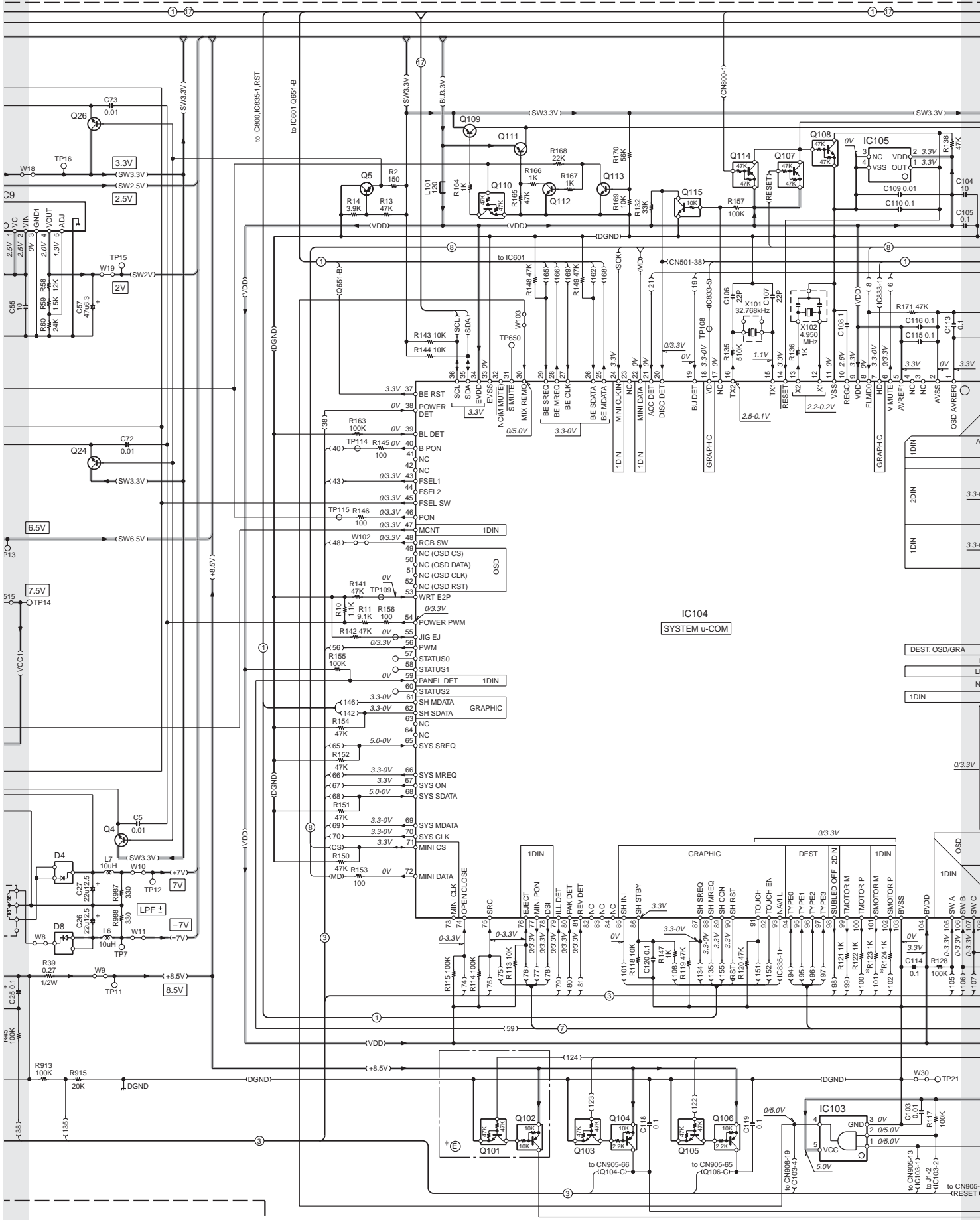




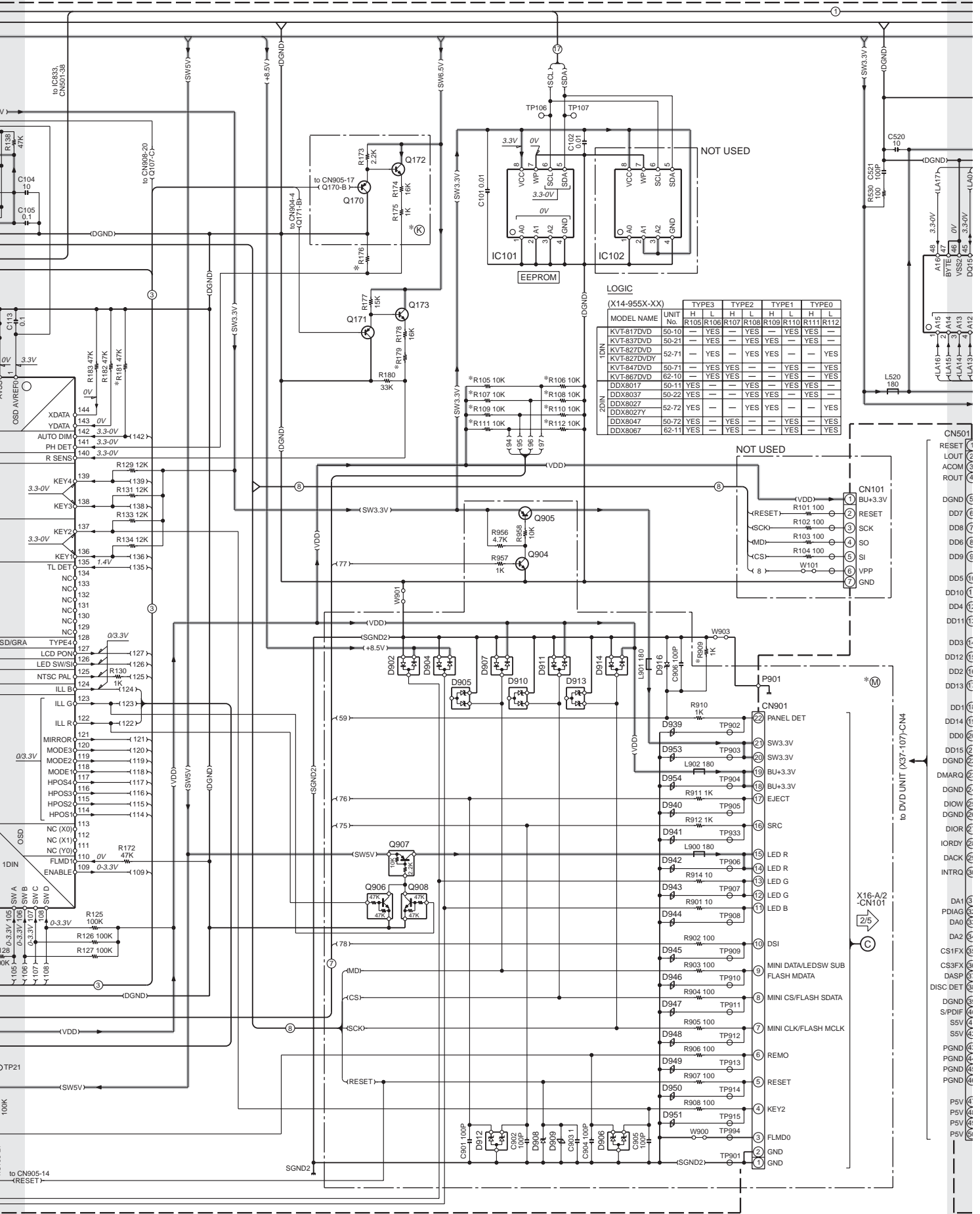
DDX8017/8027/8027Y  
DDX8037/8047/8067







DDX8017/8027/8027Y  
DDX8037/8047/8067

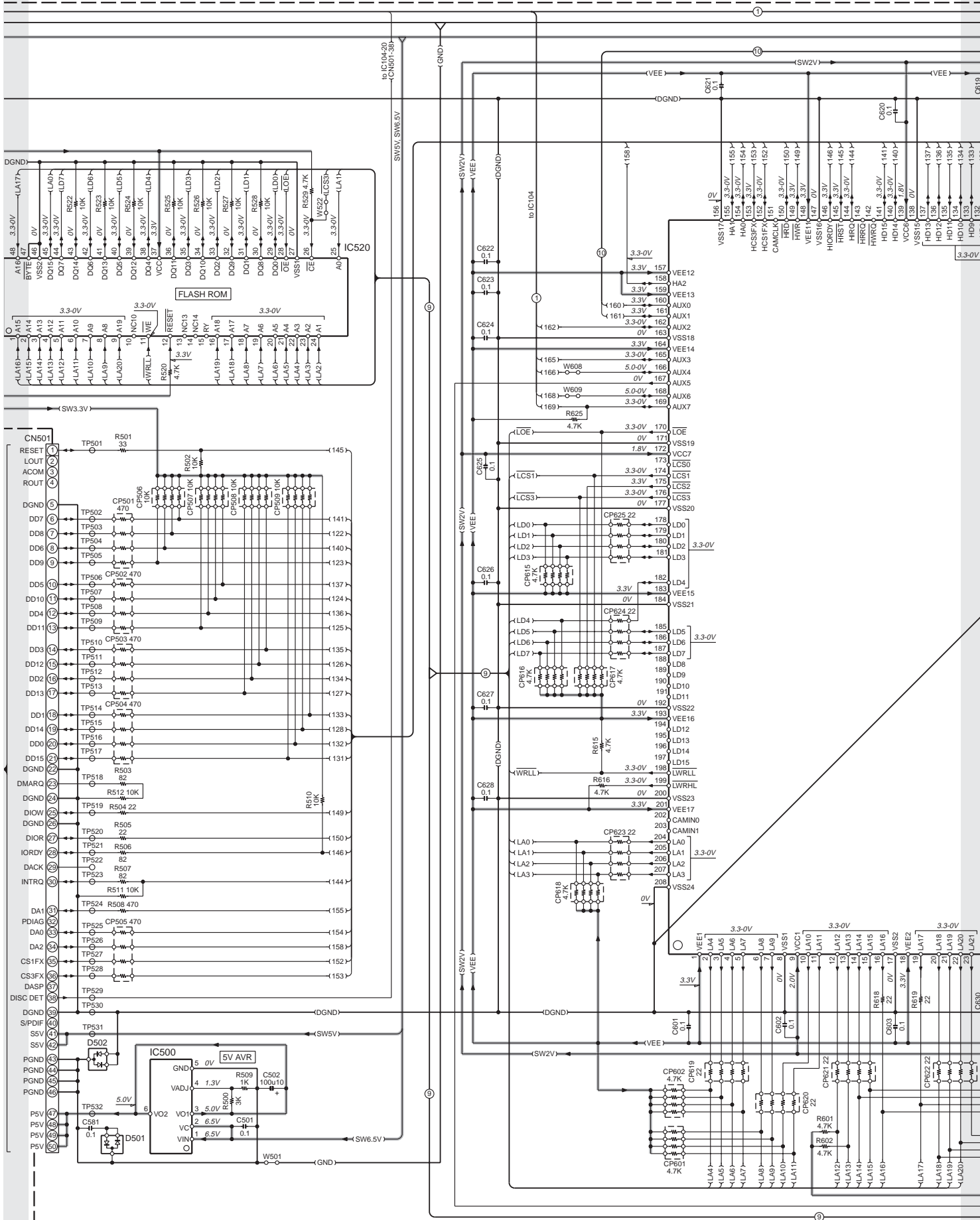


LOGIC  
(X14-955X-XX)

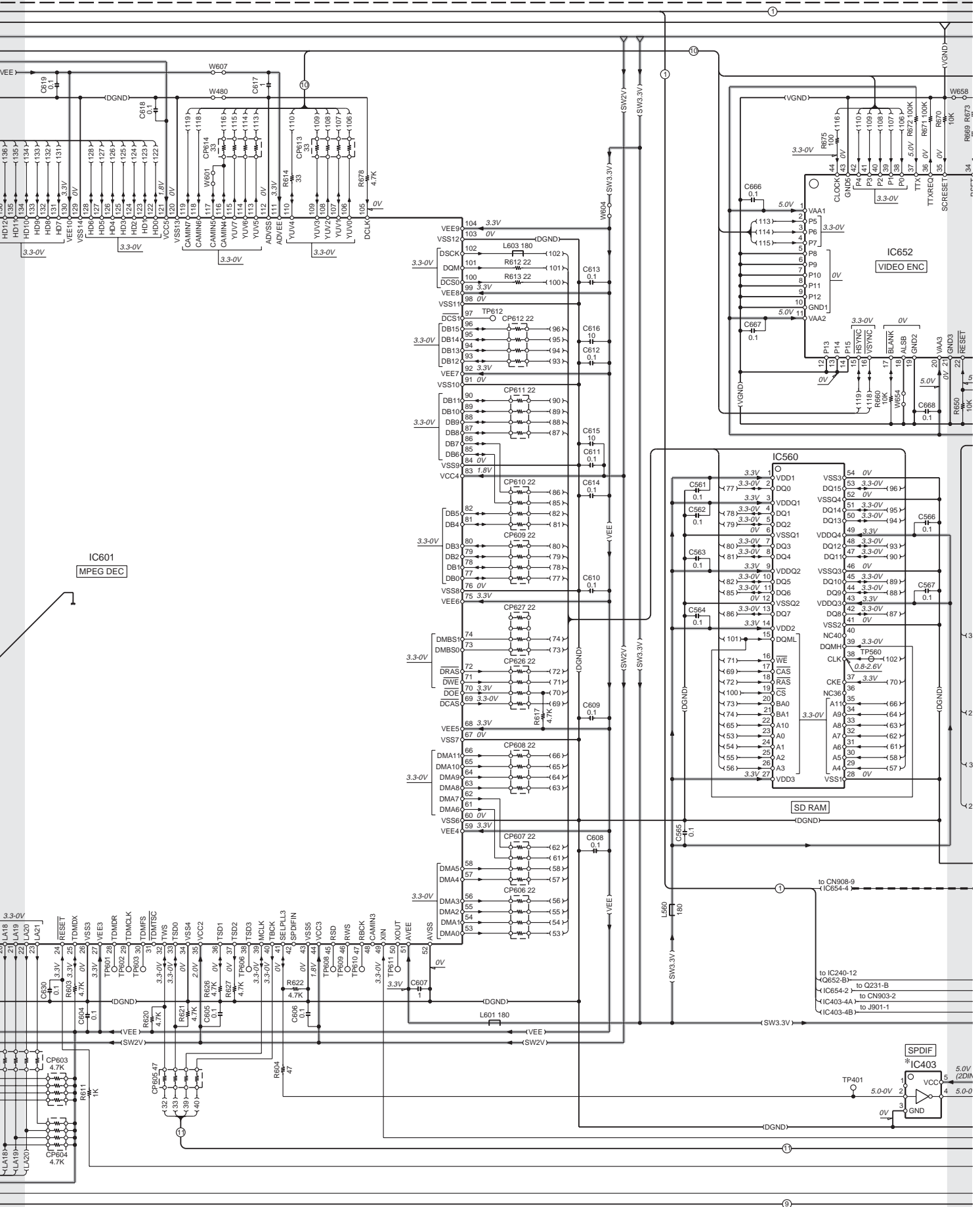
MODEL NAME	UNIT No.	TYPE3		TYPE2		TYPE1		TYPE0	
		H	L	H	L	H	L	H	L
KVT-817/DVD	50-10	—	YES	—	YES	—	YES	—	YES
KVT-837/DVD	50-21	—	YES	—	YES	—	YES	—	YES
KVT-827/DVDY	52-71	—	YES	—	YES	—	YES	—	YES
KVT-847/DVD	50-71	—	YES	—	YES	—	YES	—	YES
KVT-867/DVD	62-10	—	YES	—	YES	—	YES	—	YES
DDX8017	50-11	YES	—	—	YES	—	YES	—	YES
DDX8037	50-22	YES	—	—	YES	—	YES	—	YES
DDX8027	52-72	YES	—	—	YES	—	YES	—	YES
DDX8047	50-72	YES	—	—	YES	—	YES	—	YES
DDX8067	62-11	YES	—	—	YES	—	YES	—	YES

- CN501
- RESET
  - LOUT
  - ACOM
  - ROUT
  - DGND
  - D07
  - D08
  - DD06
  - DD9
  - DD10
  - DD4
  - DD11
  - D03
  - DD12
  - DD2
  - DD13
  - DD1
  - DD14
  - DD0
  - DD15
  - DGND
  - DMARQ
  - DGND
  - DIOW
  - DGND
  - DIOR
  - IORDY
  - DACK
  - INTRQ
  - DA1
  - PDIAG
  - DA0
  - DA2
  - CS1FX
  - CS3FX
  - DASP
  - DISC DET
  - DGND
  - SPDIF
  - SV5
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  - PGND
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  - PGND
  - PGND
  - PSV
  - PSV
  - PSV
  - PSV

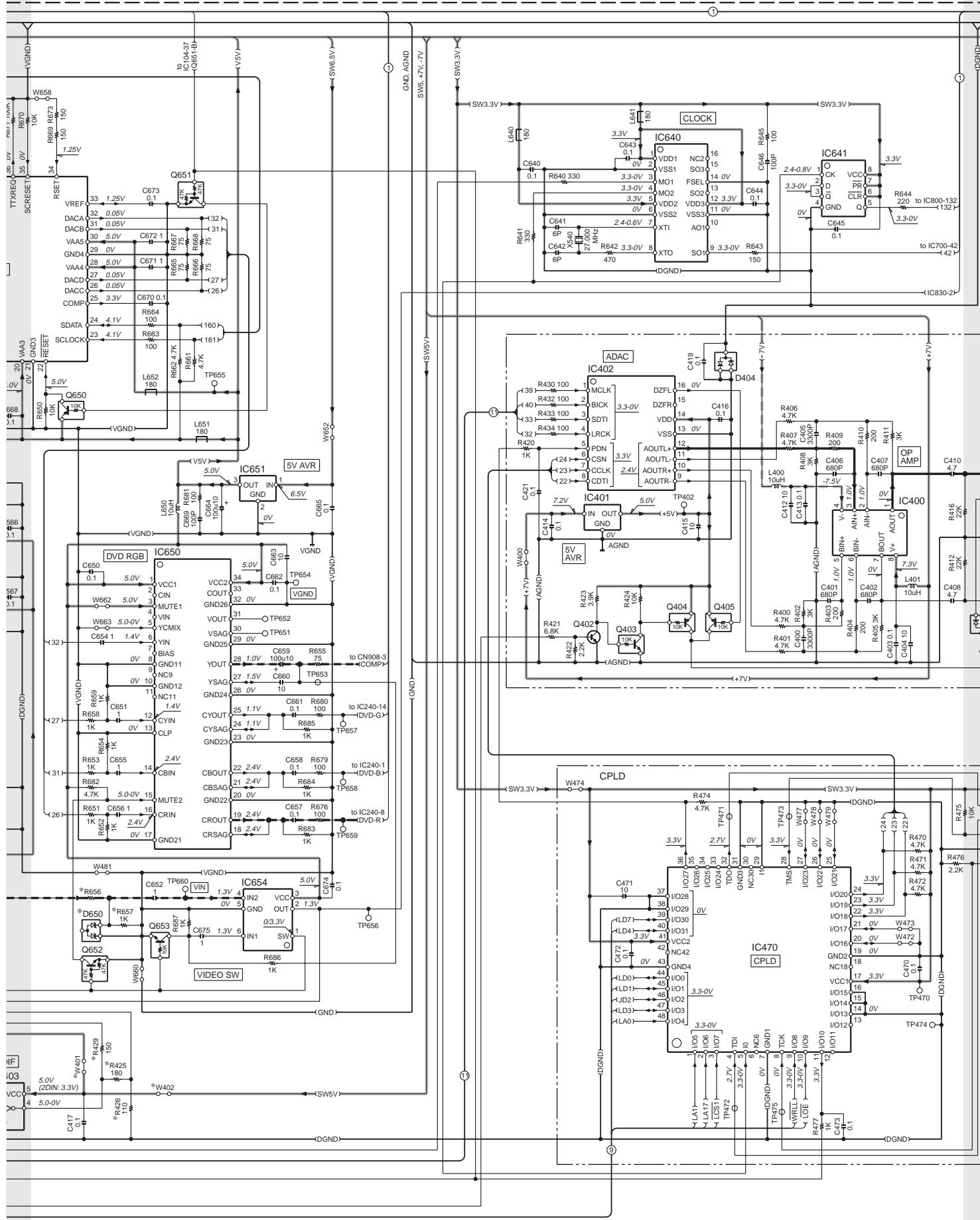
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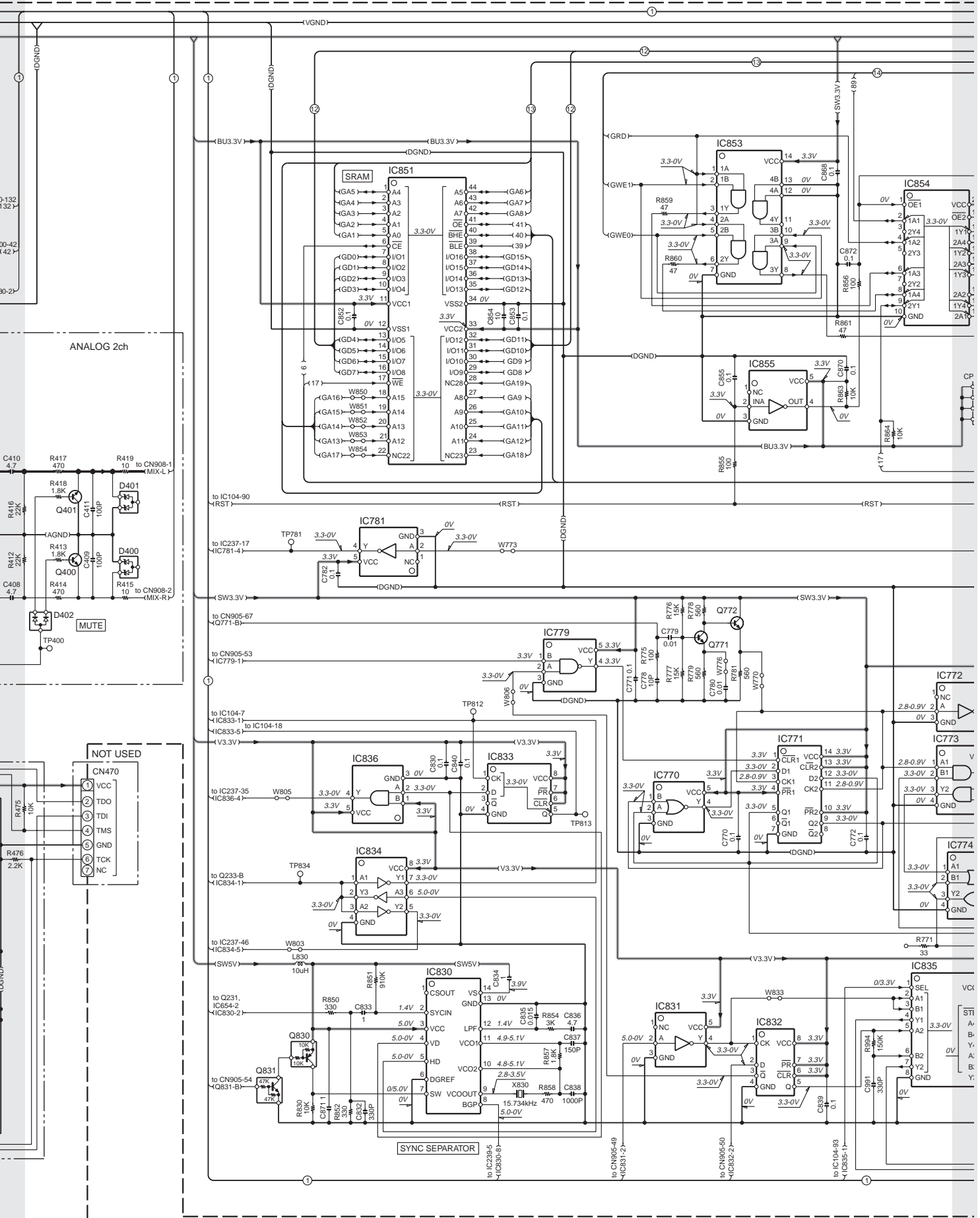
# DDX8017/8027/8027Y DDX8037/8047/8067



# DDX8017/8027/8027Y DDX8037/8047/8067



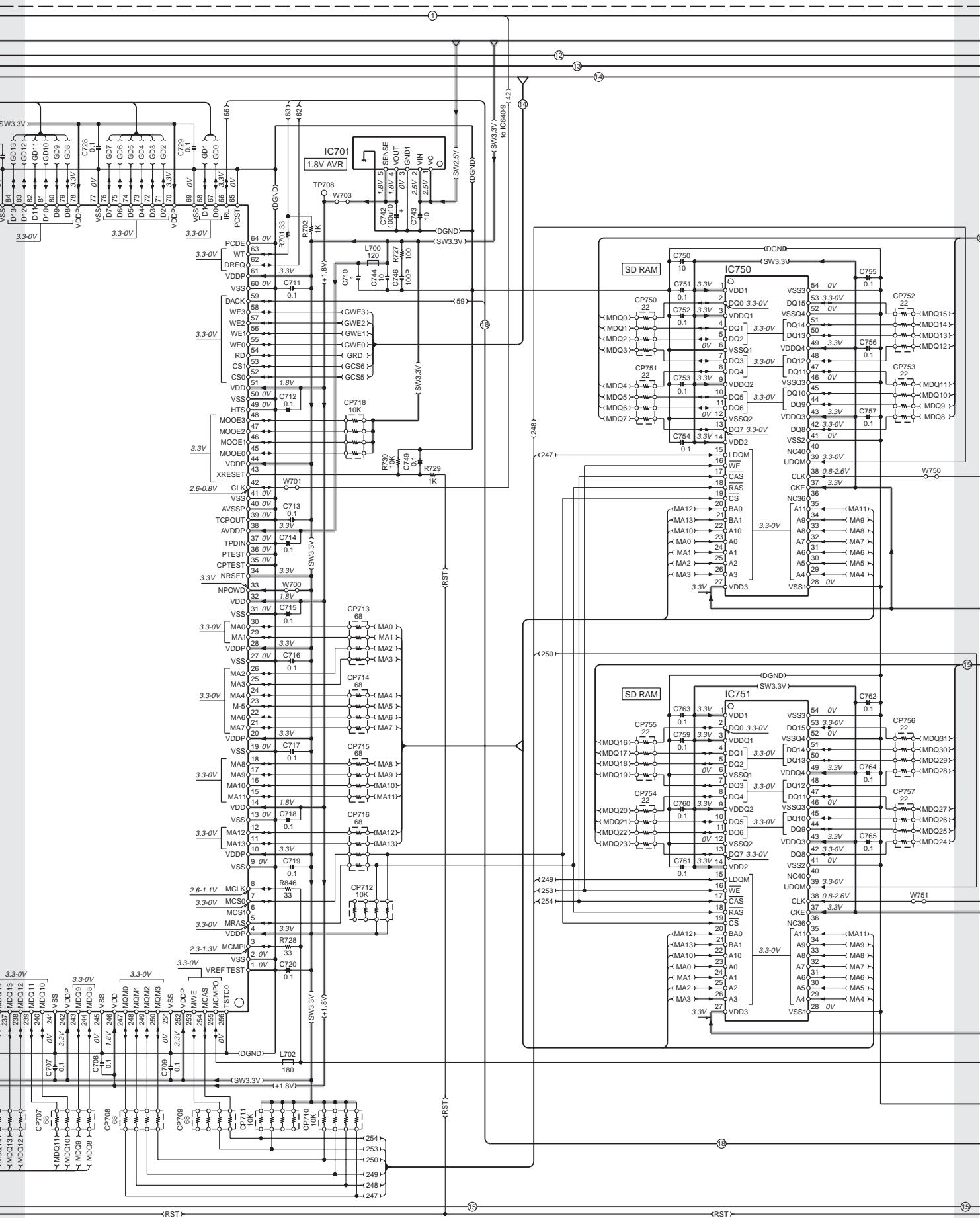
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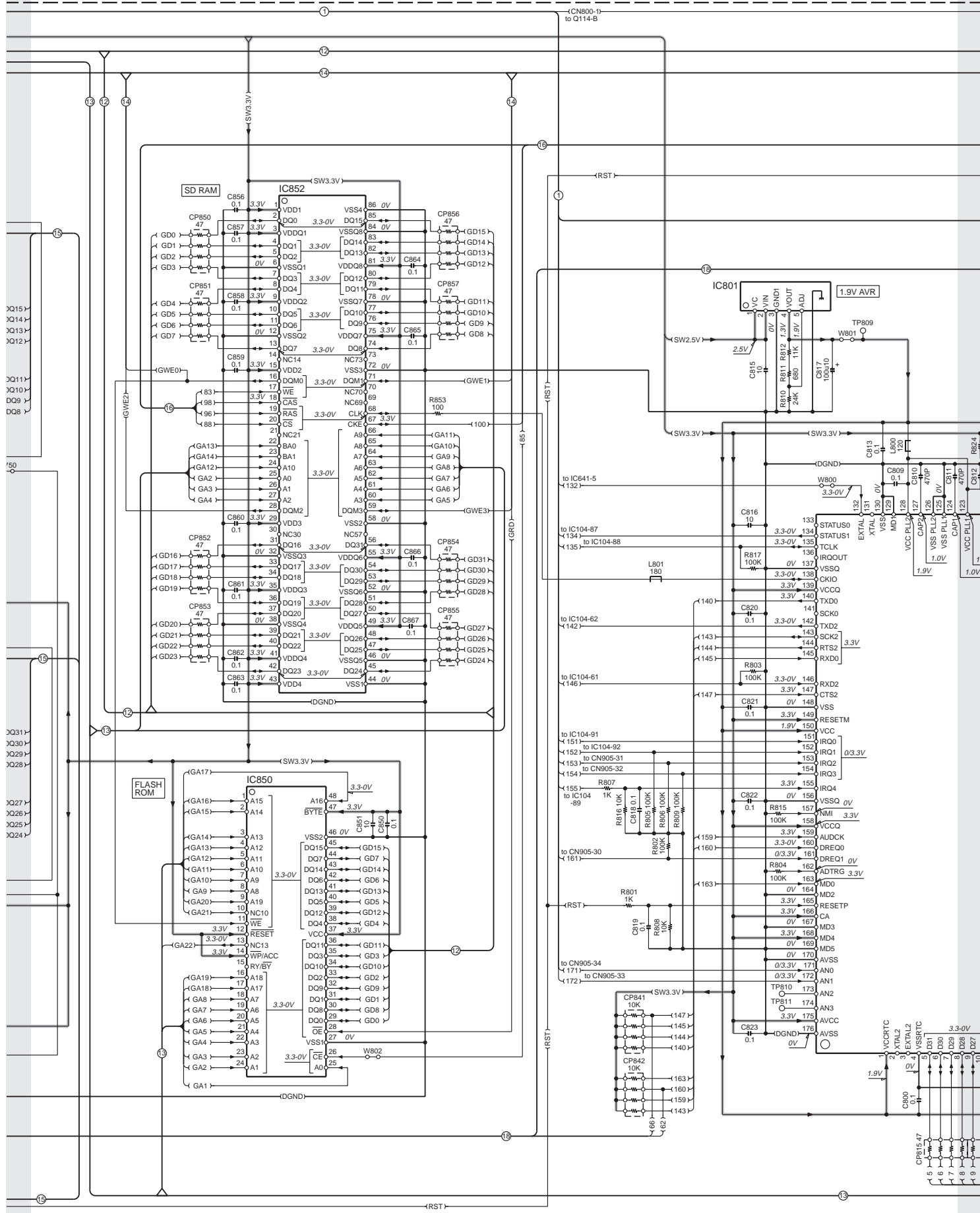


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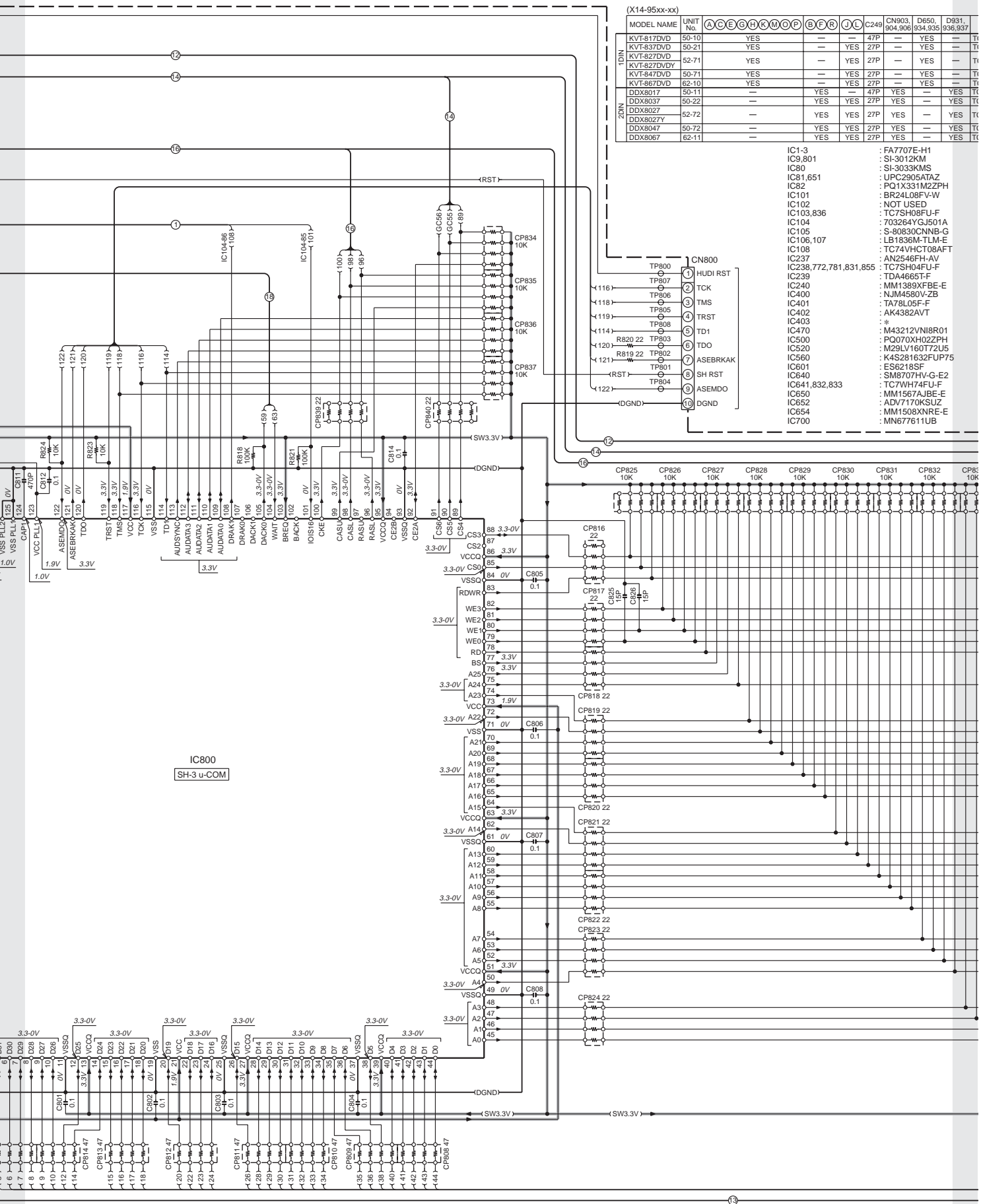




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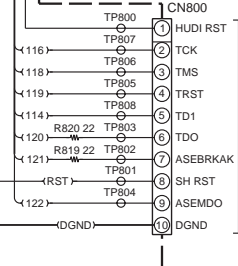


# DDX8017/8027/8027Y DDX8037/8047/8067



		(X14-95xx-xx)																		
		UNIT No.	A	C	E	G	H	K	M	O	P	B	E	R	O	L	C249	CN803	D650	D831
																		904,906	934,935	936,937
1DN	KVT-817DVD	50-10	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	47P	—	YES	—
	KVT-837DVD	50-21	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	—	YES	—
	KVT-827DVD	52-71	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	—	YES	—
	KVT-827VDVY	50-71	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	—	YES	—
	KVT-867DVD	62-10	YES	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	—	YES	—
2DN	DDX8017	50-11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47P	YES	—	YES
	DDX8037	50-22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	YES	—	YES
	DDX8027	52-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	YES	—	YES
	DDX8027Y	50-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	YES	—	YES
	DDX8047	50-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	YES	—	YES
DDX8067	62-11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27P	YES	—	YES	

- IC1-3 : FA7707E-H1
- IC9,801 : SI-3012KM
- IC80 : S-9033KMS
- IC81,651 : UPC2905ATAZ
- IC82 : PQ1X331M2ZPH
- IC101 : BR24L08FV-W
- IC102 : NOT USED
- IC103,836 : TC7SH08FU-F
- IC104 : 703264YGJ501A
- IC105 : S-90330CNB-G
- IC106,107 : LB1836M-TLM-E
- IC108 : TC74VCT08AFT
- IC237 : AN2546FH-AV
- IC238,772,781,831,855 : TC7SH04FU-F
- IC239 : TDA4665TF
- IC240 : MM1389XFBE-E
- IC400 : NJM4580V-ZB
- IC401 : TA78L05F-F
- IC402 : AK4382AVT
- IC403 : \*
- IC470 : M43212VNI8R01
- IC500 : PQ070XH02ZPH
- IC520 : M29LV160T72U5
- IC560 : K45281632FUP75
- IC601 : ES6218SF
- IC640 : SM8707HV-G-E2
- IC641,832,833 : TC7WH74FU-F
- IC650 : MM1567AJBE-E
- IC652 : ADV7170KSUZ
- IC654 : MM1508XNRE-E
- IC700 : MN577611UB

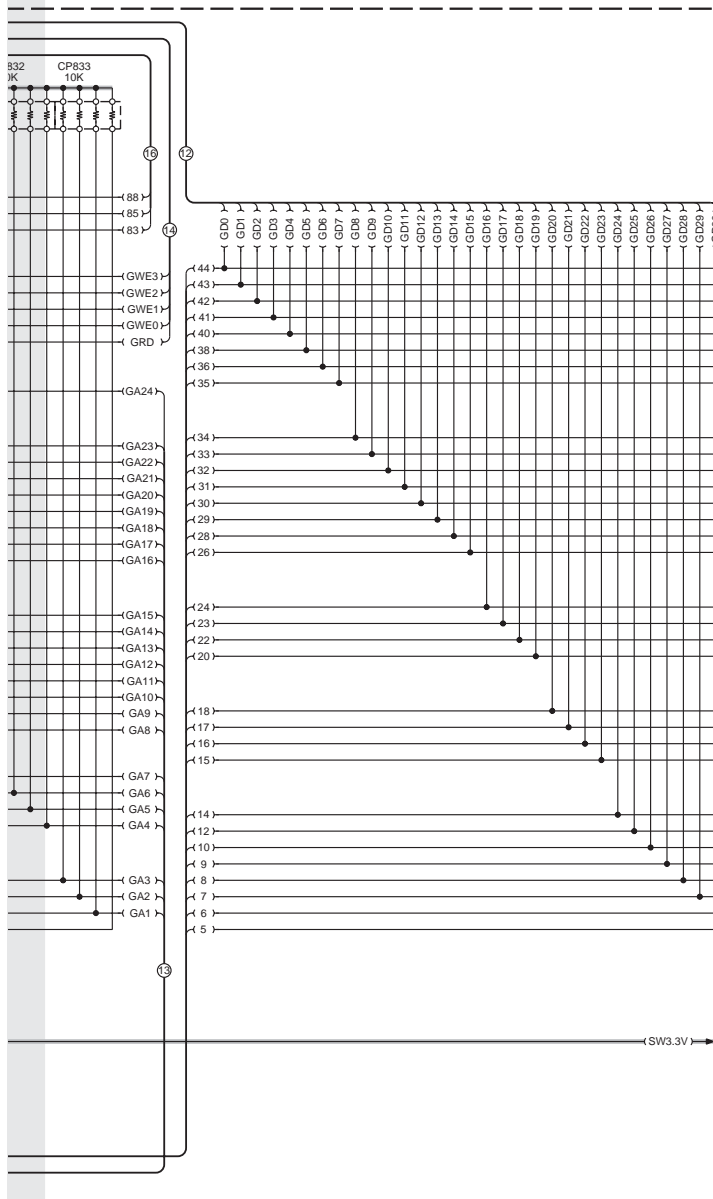


DDX8017/8027/8027Y  
DDX8037/8047/8067

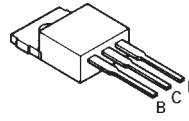
Table with columns for component types (D931, IC403, etc.) and their specifications (P2, Q233, R49, R82, etc.).

Table listing component part numbers (IC701, IC750, etc.) and their corresponding manufacturer part numbers (SI-3018KM, K4S641632HUC7, etc.).

Table listing component part numbers (Q1, Q2, Q3, etc.) and their corresponding manufacturer part numbers (4.8, 11.24, 26.81, etc.).



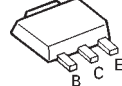
2SB1565



- DTA123JK
- DTA144EUA
- DTB123YK
- DTC114YUA
- DTC143TUA
- 2SA1576A
- 2SC4617



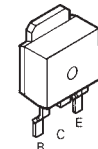
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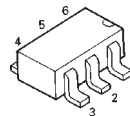
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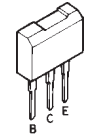
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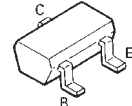
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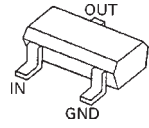
2SB1443



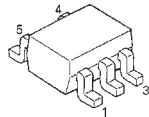
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2SC4081



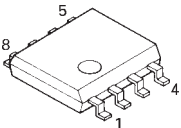
- DTA114EUA
- DTA114TUA
- DTA124EUA
- DTA143EUA
- DTC114EUA
- DTC123JUA
- DTC124EUA
- DTC143EUA
- DTC144EUA



UMC2N



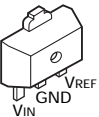
TA75W558FU-F



DAN202U



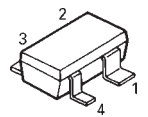
TA78L05F-F



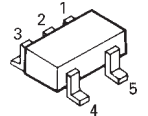
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DA204U  
DTA114YUA



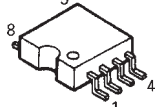
DA227



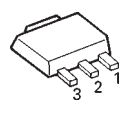
TC7SH04FU-F  
TC7SH08FU-F



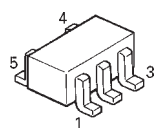
BA3121F



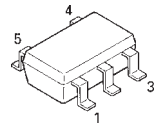
M5237ML-CF0J



TC7SHU04FU-F



TC7SET08FU-F

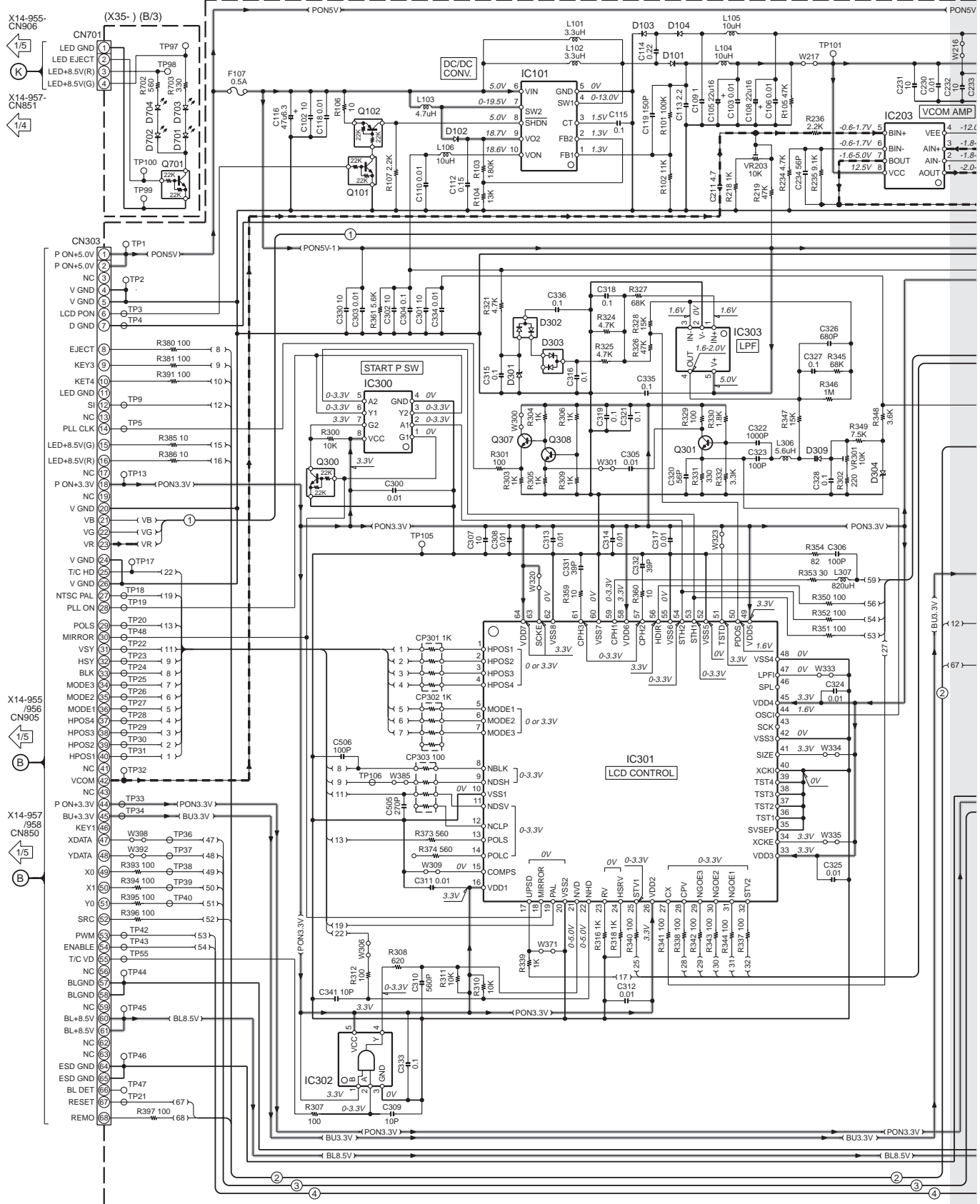


**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  
⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

BS BT BU BV BW  
 DDX8017/8027/8027Y  
 DDX8037/8047/8067

(X35-4580-10) (A/3) : EXCEPT DDX8067  
 (X35-4592-10) (A/3) : DDX8067 ONLY

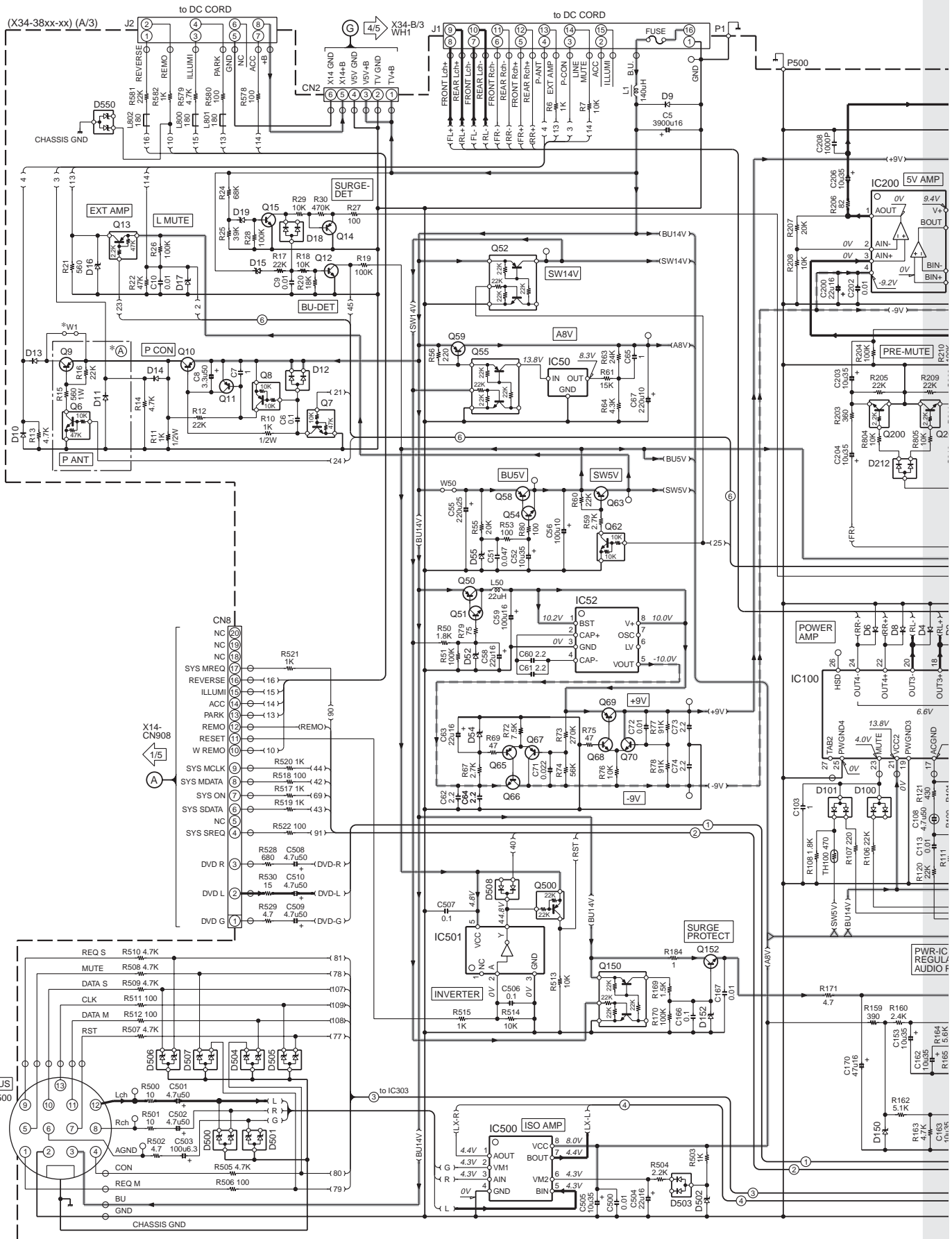




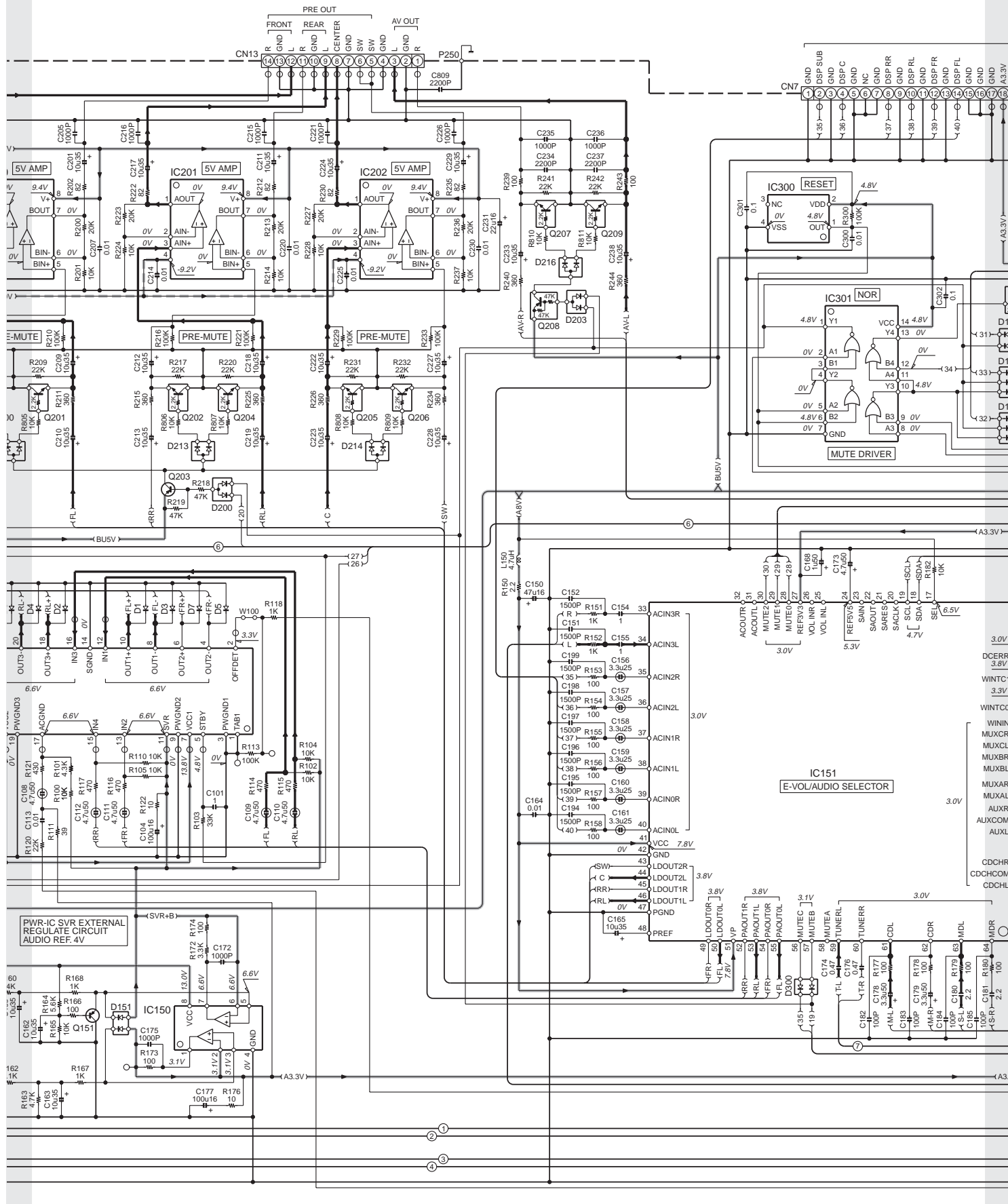


CC CD CE CF CG  
 DDX8017/8027/8027Y  
 DDX8037/8047/8067

1  
2  
3  
4  
5  
6  
7

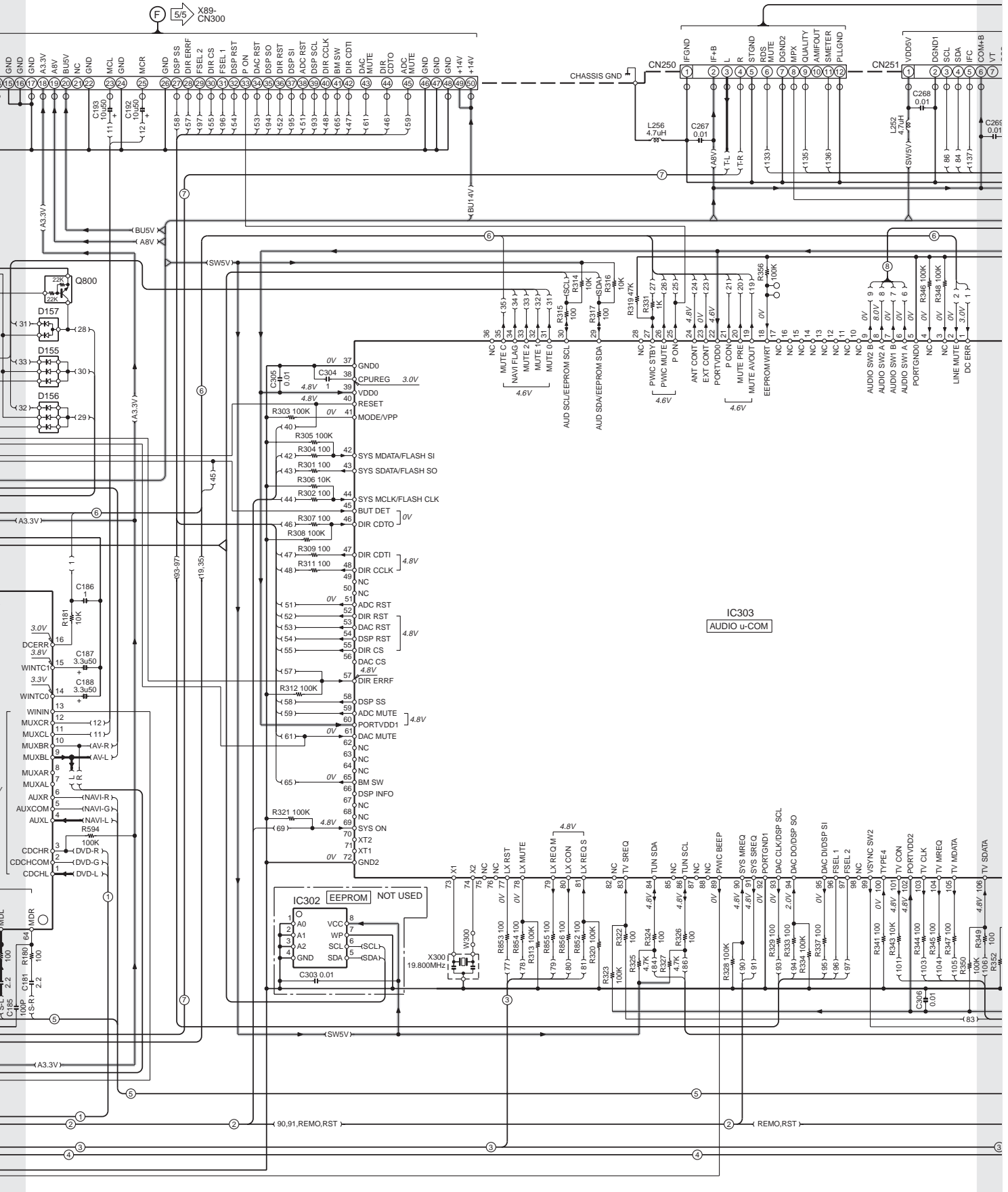


# DDX8017/8027/8027Y DDX8037/8047/8067

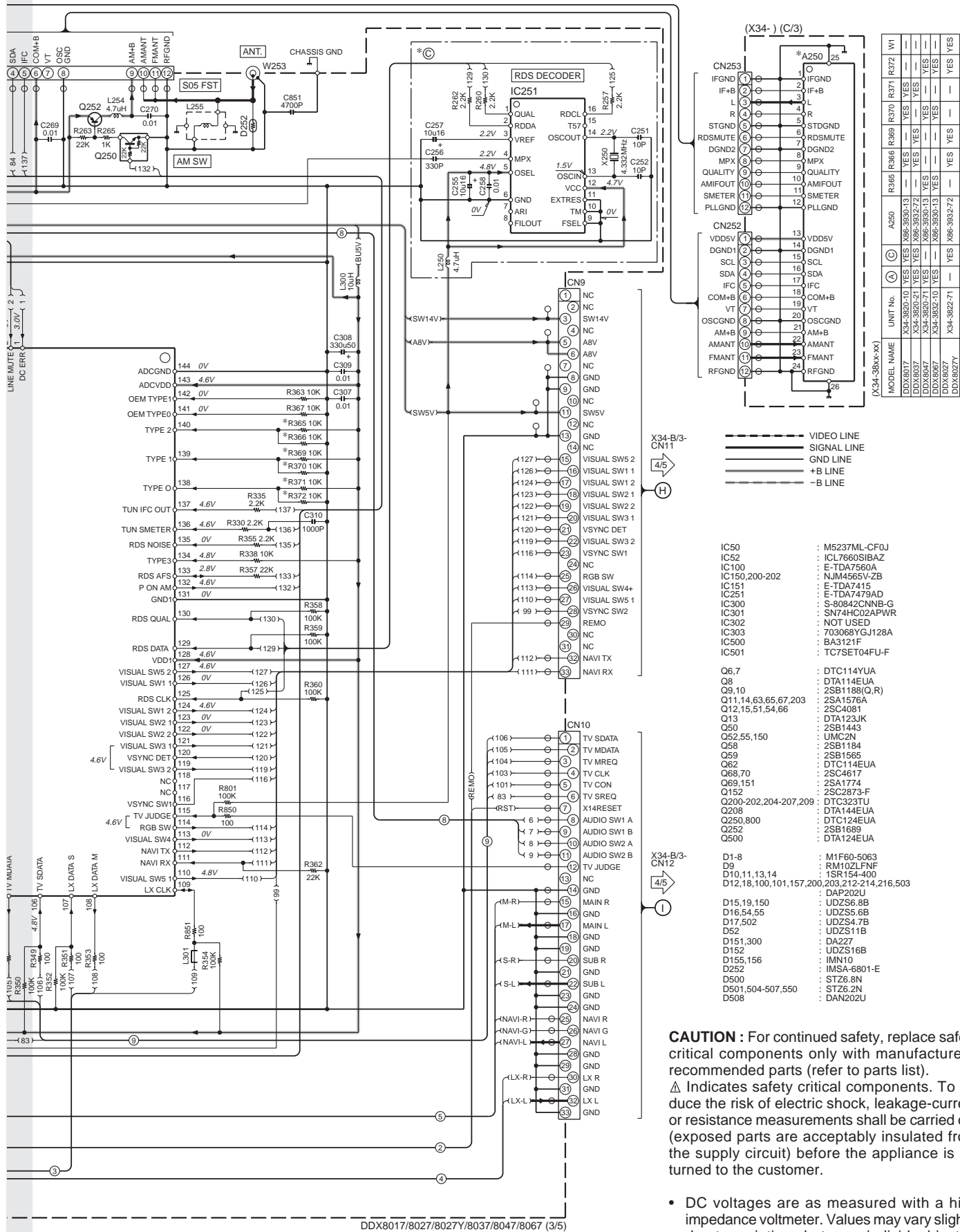




DDX8017/8027/8027Y  
DDX8037/8047/8067



# DDX8017/8027/8027Y DDX8037/8047/8067



DDX8017/8027/8027Y/8037/8047/8067 (3/5)

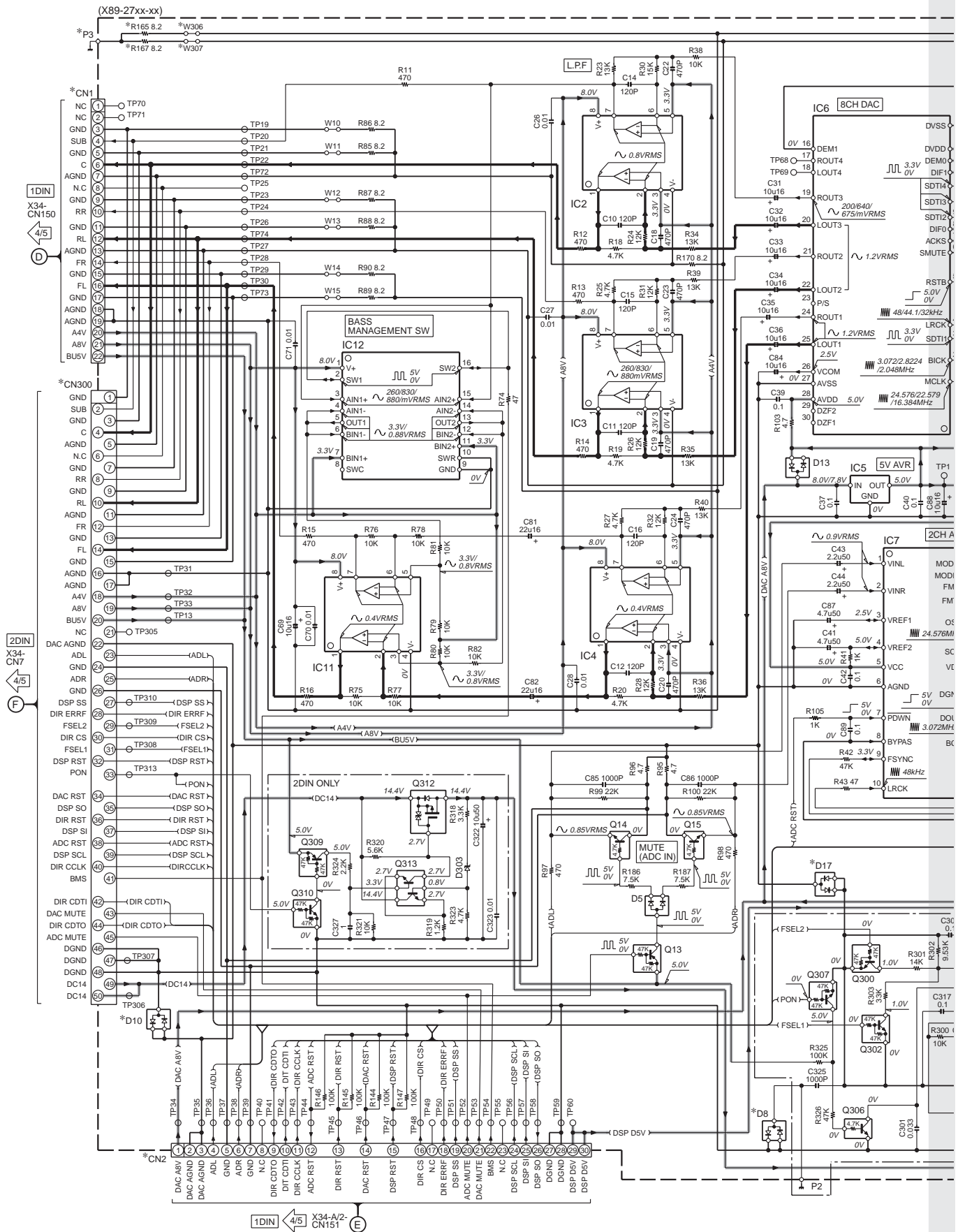
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are 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.





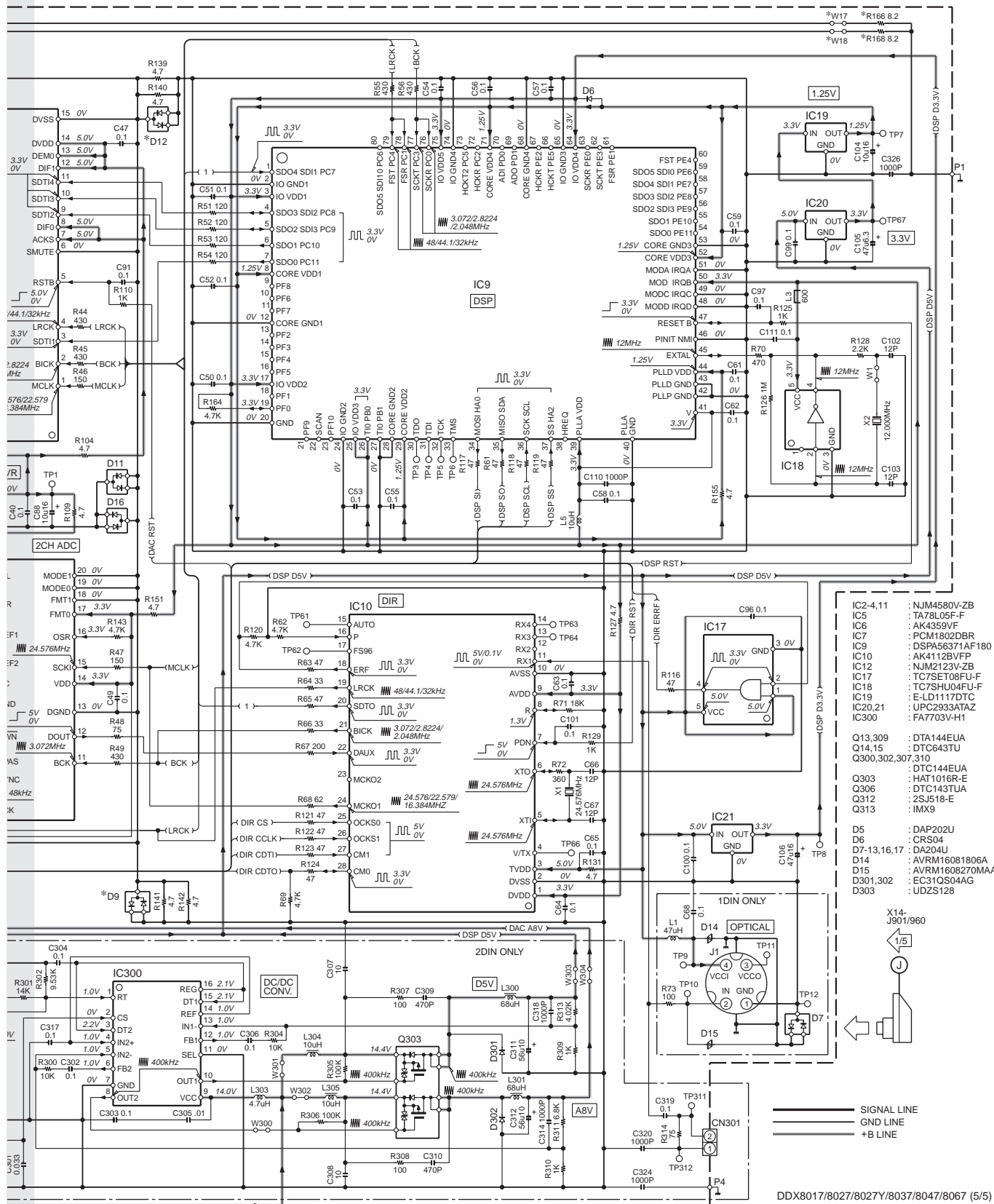
DDX8017/8027/8027Y  
DDX8037/8047/8067



**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.



# DDX8017/8027/8027Y DDX8037/8047/8067



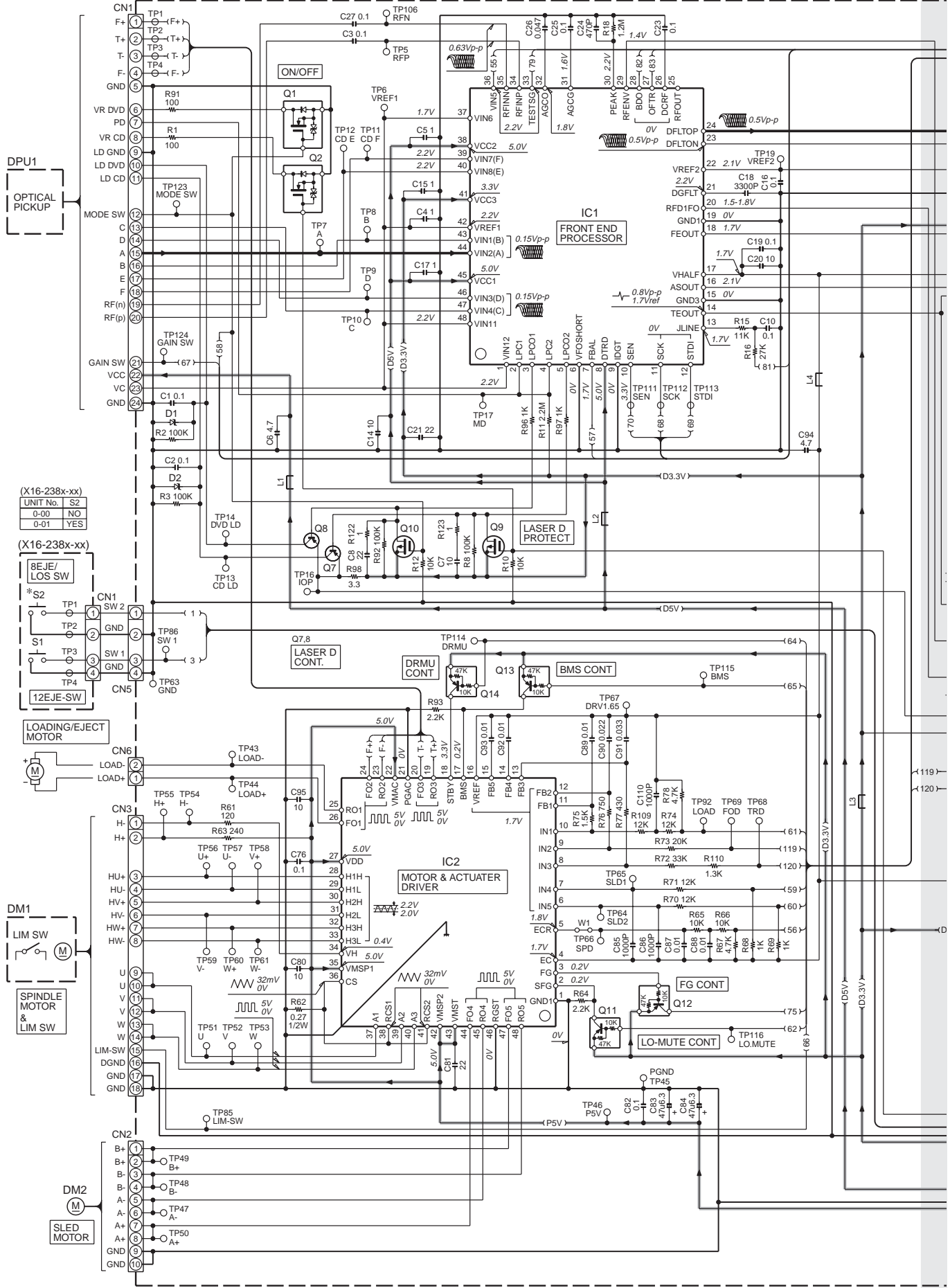
DDX8017/8027/8027Y/8037/8047/8067 (5/5)

	MODEL NAME	UNIT No.	CN1, CN2	CN300	D8-10, 12, 17	P3	R165, 167	R166, 168	W17, 18	W306, 307
2DIN	DDX8017/8027/8027Y/8037/8047	X89-2740-11	—	—	—	—	—	—	—	—
	DDX8067	X89-2792-11	—	—	—	—	—	—	—	—
1DIN	KVT-817D/DV/D2/DV/D2/DV/DY/837D/DV/847D/DV/727D/DV/727D/DV/DY	X89-2740-10	—	—	—	—	—	—	—	—
	KVT-867D/DV	X89-2792-10	—	—	—	—	—	—	—	—

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

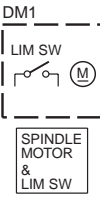
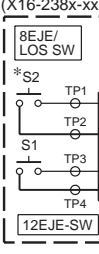
EA EB EC ED EE  
 DDX8017/8027/8027Y  
 DDX8037/8047/8067

(X37-1070-00)



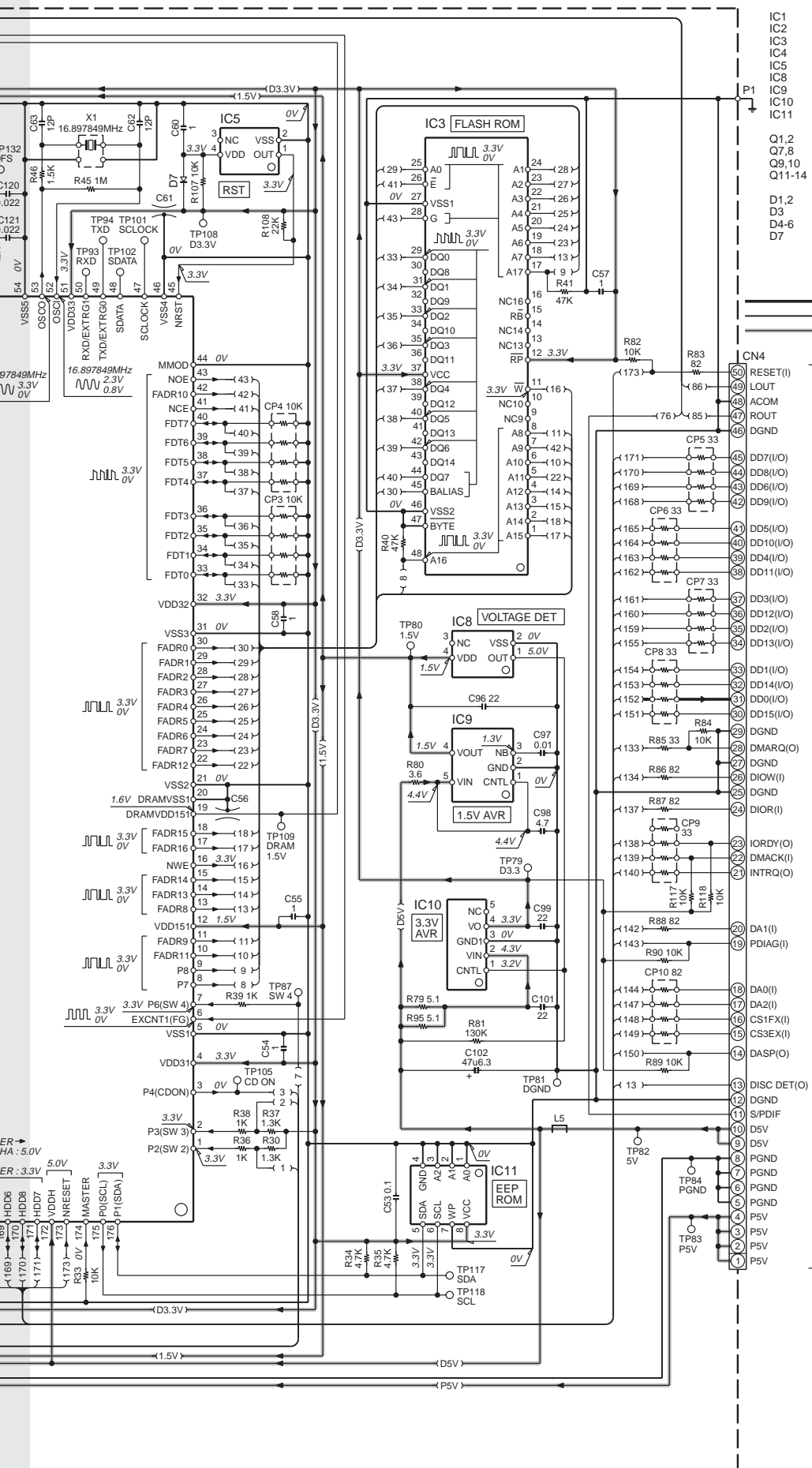
(X16-238x-xx)

UNIT No.	S2
0-00	NO
0-01	YES



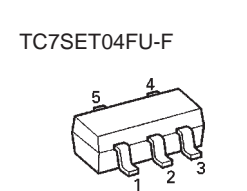
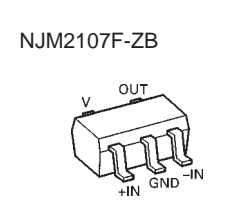
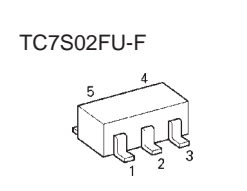
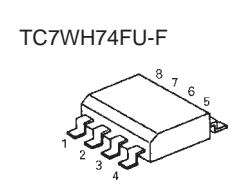
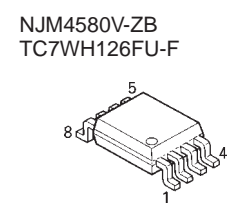
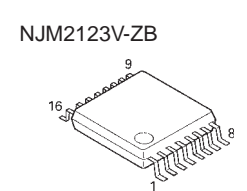






- IC1 : AN22022A-V
  - IC2 : AN41204A
  - IC3 : M29W400DB55N6E
  - IC4 : MN103S71F
  - IC5 : S-80829CNPF
  - IC8 : S-80813CNPF
  - IC9 : NJM2880U115
  - IC10 : NJM2886DL2-33
  - IC11 : S-24CS04AFT
- 
- Q1,2 : 2SK3018
  - Q7,8 : 2SB0970
  - Q9,10 : 2SJ0536
  - Q11-14 : DTA114YUA
- 
- D1,2 : MAZS0510M
  - D3 : MA4ZD03
  - D4-6 : DAP202U
  - D7 : MA2S111

— SIGNAL LINE  
— GND LINE  
— +B LINE

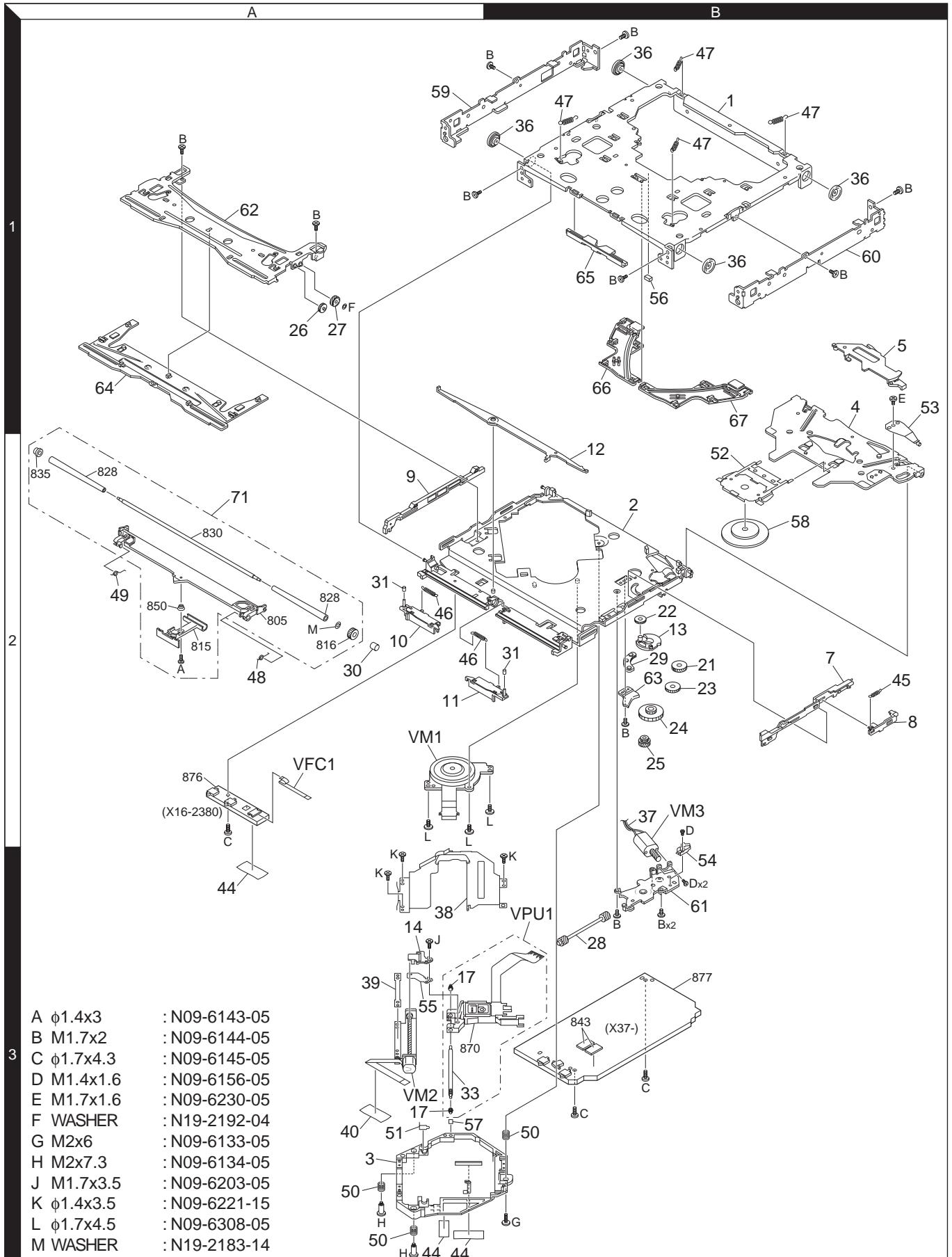


X14-  
CN501  
1/5

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 ⚠ 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.

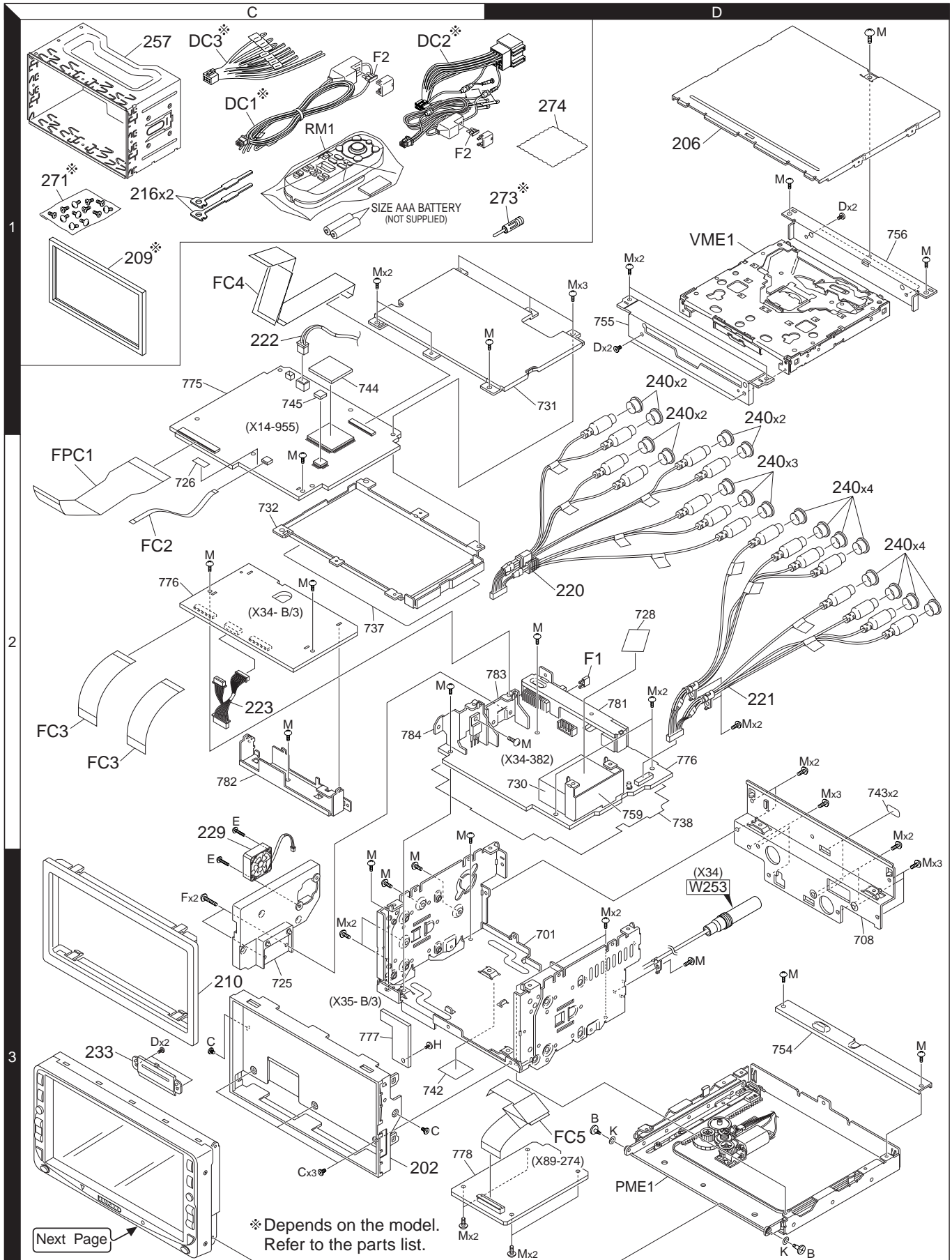
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

# EXPLODED VIEW (DVD MECHANISM)



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

# EXPLODED VIEW (UNIT)



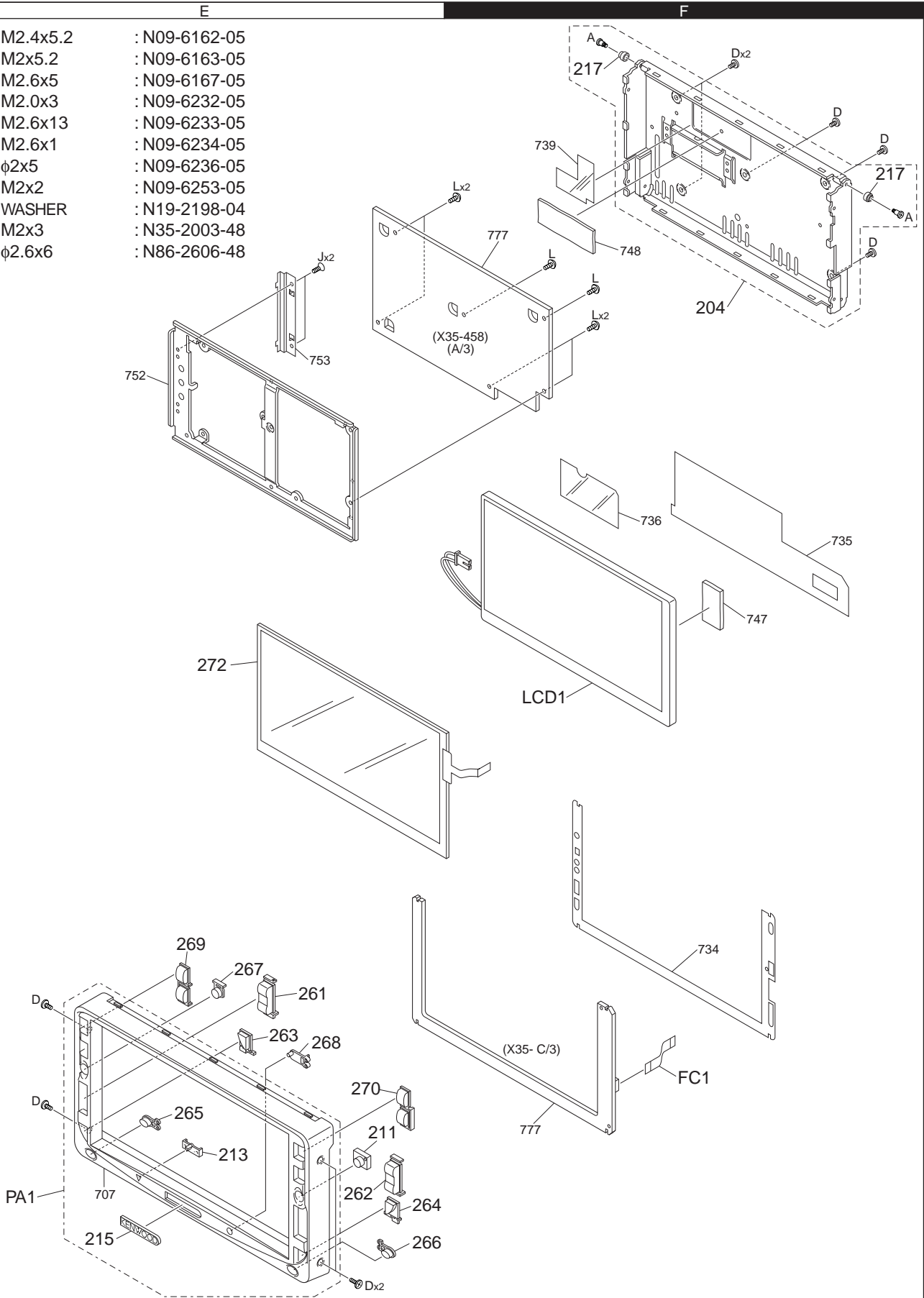
# EXPLODED VIEW (PANEL)

- |   |          |   |             |
|---|----------|---|-------------|
| A | M2.4x5.2 | : | N09-6162-05 |
| B | M2x5.2   | : | N09-6163-05 |
| C | M2.6x5   | : | N09-6167-05 |
| D | M2.0x3   | : | N09-6232-05 |
| E | M2.6x13  | : | N09-6233-05 |
| F | M2.6x1   | : | N09-6234-05 |
| H | φ2x5     | : | N09-6236-05 |
| J | M2x2     | : | N09-6253-05 |
| K | WASHER   | : | N19-2198-04 |
| L | M2x3     | : | N35-2003-48 |
| M | φ2.6x6   | : | N86-2606-48 |

1

2

3

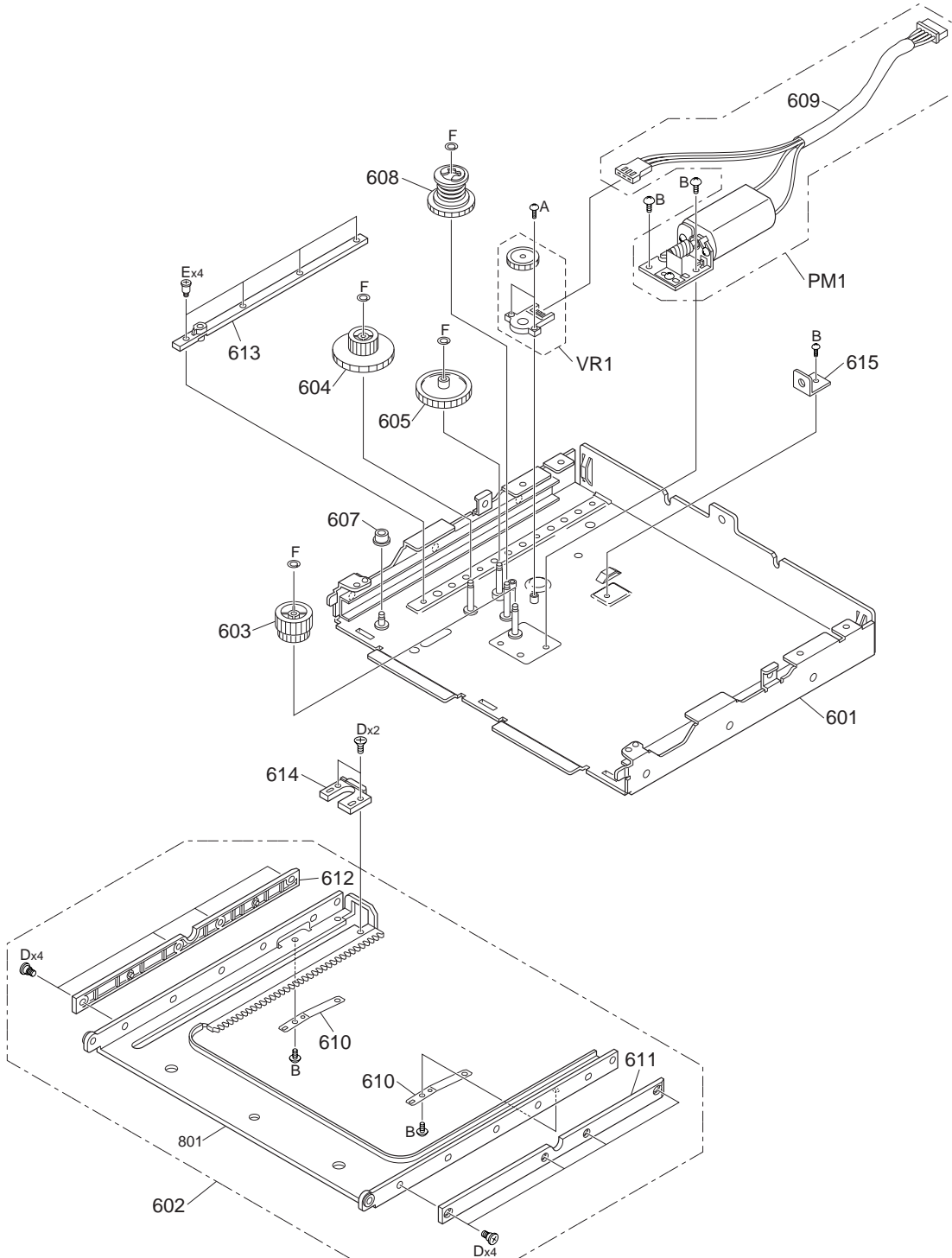


Parts with the exploded numbers larger than 700 are not supplied.



# EXPLODED VIEW (PANEL MECHANISM)

- |   |               |   |             |
|---|---------------|---|-------------|
| A | M1.7x4        | : | N09-6147-08 |
| B | φ2x2.3        | : | N09-6148-08 |
| D | φ2x2.3        | : | N09-6150-08 |
| E |               | : | N09-6151-08 |
| F | WASHER1.6x3.5 | : | N19-2105-14 |



# 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
<b>DDX8017/8027/8027Y/8037/8047/8067</b>											
202	3C	*	A22-3086-02	SUB PANEL ASSY	K	FC3	2C	*	E39-0773-05	FLAT CABLE	
202	3C	*	A22-3087-02	SUB PANEL ASSY	E1E2M1	FC4	1C	*	E39-0770-15	FLAT CABLE	
202	3C	*	A22-3087-02	SUB PANEL ASSY	X1C	FC5	3D	*	E39-0776-05	FLAT CABLE	
204	1F	*	A46-1801-13	REAR COVER ASSY		229	2C	*	F09-1992-05	FAN	
206	1D		A52-0854-12	TOP PLATE		233	3C		F19-1426-03	COVER	
PA1	3E	*	A64-3576-01	PANEL ASSY	K	240	2D		F29-0626-04	INSULATING COVER	
PA1	3E	*	A64-3577-01	PANEL ASSY	E1E2	F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) 10A	
PA1	3E	*	A64-3578-01	PANEL ASSY	M1	F2	1C		F52-0004-05	FUSE (MINI BLADE TYPE) 5A	
PA1	3E	*	A64-3579-01	PANEL ASSY	X1	-			H10-4917-02	POLYSTYRENE FOAMED FIXTURE	
PA1	3E	*	A64-3580-01	PANEL ASSY	C	-			H10-4918-02	POLYSTYRENE FOAMED FIXTURE	
RM1	1C		A70-2072-05	REMOTE CONTROLLER AS (RC-DV601)		-			H12-2745-04	PACKING FIXTURE	
-			B46-0100-50	WARRANTY CARD	KE1E2	-		*	H54-3524-03	ITEM CARTON CASE	K
-			B46-0100-50	WARRANTY CARD	M1X1	-		*	H54-3525-03	ITEM CARTON CASE	E1
-			B46-0612-14	ID CARD	E1E2M1	-		*	H54-3526-03	ITEM CARTON CASE	E2
-			B46-0612-14	ID CARD	X1	-		*	H54-3527-03	ITEM CARTON CASE	M1
-			B46-0639-00	WARRANTY CARD	C	-		*	H54-3528-03	ITEM CARTON CASE	X1
-			B46-0657-04	ID CARD	C	-		*	H54-3529-03	ITEM CARTON CASE	C
-		*	B54-4467-00	INSTALLATION MANUAL	K	257	1C		J22-0171-03	MOUNTING HARDWARE ASSY	
-		*	B54-4468-00	INSTALLATION MANUAL	E1E2	FPC1	2C		J84-0173-05	FLEXIBLE PRINTED WIRING BOARD	
-		*	B54-4469-00	INSTALLATION MANUAL	M1X1C	261	3E		K24-4149-03	PUSH KNOB (VOL)	
-		*	B64-3185-00	INSTRUCTION MANUAL (ENGLISH)	K	262	3E		K24-4150-03	PUSH KNOB (SEEK)	
-		*	B64-3186-00	INSTRUCTION MANUAL (FRENCH)	K	263	3E		K24-4151-13	PUSH KNOB (ATT)	
-		*	B64-3187-00	INSTRUCTION MANUAL (SPANISH)	K	264	3E		K24-4152-13	PUSH KNOB (TI)	E1E2M1
-		*	B64-3188-00	INSTRUCTION MANUAL (ENGLISH)	E1E2	264	3E		K24-4171-13	PUSH KNOB (AUTO)	KX1C
-		*	B64-3189-00	INSTRUCTION MANUAL (FRENCH)	E1	265	3E	*	K24-4416-03	PUSH KNOB (V.SEL)	
-		*	B64-3190-00	INSTRUCTION MANUAL (GERMAN)	E1	266	3E	*	K24-4417-03	PUSH KNOB (PLAY/PAUSE)	
-		*	B64-3191-00	INSTRUCTION MANUAL (DUTCH)	E1	267	3E		K24-4155-13	PUSH KNOB (SRC)	
-		*	B64-3192-00	INSTRUCTION MANUAL (ITALIAN)	E1	268	3E		K24-4156-14	PUSH KNOB (RESET)	
-		*	B64-3193-00	INSTRUCTION MANUAL (SPANISH)	E1	269	3E		K25-1638-03	PUSH KNOB (EJECT, FUNC)	
-		*	B64-3194-00	INSTRUCTION MANUAL (PORTUGUESE)	E1	270	3E		K25-1639-03	PUSH KNOB (MODE, SCRN)	
-		*	B64-3195-00	INSTRUCTION MANUAL (ENGLISH)	M1X1C	271	1C	*	N99-1776-05	SCREW SET	KM1X1C
-		*	B64-3196-00	INSTRUCTION MANUAL (T-CHINESE)	M1	A	1F		N09-6162-05	STEPPED SCREW (M2.4X5.2)	
-		*	B64-3197-00	INSTRUCTION MANUAL (KOREAN)	M1	B	3D		N09-6163-05	STEPPED SCREW (M2X5.2)	
-		*	B64-3198-00	INSTRUCTION MANUAL (S-CHINESE)	C	C	3C		N09-6167-05	MACHINE SCREW (M2.6X5)	
209	1C		B07-3046-04	ESCUTCHEON ASSY	M1X1C	D	3C		N09-6232-05	MACHINE SCREW (M2.0X3)	
210	3C		B07-3105-02	ESCUTCHEON		E	2C		N09-6233-05	MACHINE SCREW (M2.6X13)	
211	3E		B10-4546-13	FRONT GLASS		F	3C		N09-6234-05	MACHINE SCREW (M2.6X1)	
213	3E		B19-2262-03	LIGHTING BOARD		H	3C		N09-6236-05	SEMS (TAPTITE SCREW) (2.0X 5)	
215	3E		B43-1271-04	KENWOOD BADGE		J	1E		N09-6253-05	MACHINE SCREW (M2X2)	
LCD1	2F		B38-1153-05	LCD		K	3D		N19-2198-04	FLAT WASHER	
216	1C		D10-4674-04	LEVER		L	1F		N35-2003-48	BINDING HEAD MACHINE SCREW	
217	1F		D14-0792-04	ROLLER		M	2C		N86-2606-48	BINDING HEAD TAPTITE SCREW	
PME1	3D		D40-2201-15	PANEL MECHANISM ASSY		272	2E		S79-0846-05	SWITCH ASSY	
220	2D	*	E30-6487-15	CORD WITH PINPLUG		273	1C		T90-0552-05	ANTENNA ADAPTOR	E1E2
221	2D	*	E30-6489-15	CORD WITH PINPLUG		274	1C		W01-1620-05	CLEANING CLOTH	
222	1C	*	E39-0777-05	WIRING HARNESS		VME1	1D		X92-5130-00	MECHANISM ASSY	
223	2C	*	E39-0779-15	WIRING HARNESS							
DC1	1C		E30-6475-15	DC CORD	KM1X1C						
DC2	1C	*	E30-6477-15	DC CORD	E1E2						
DC3	1C	*	E30-6478-05	DC CORD	KM1X1C						
FC1	3F	*	E39-0780-05	FLAT CABLE							
FC2	2C	*	E39-0781-05	FLAT CABLE							

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.



# PARTS LIST

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
<b>VIDEO CONTROL UNIT (X14-955/956x-xx)</b>					
C1			CK73GB1H103K	CHIP C 0.010UF K	
C2			C90-5670-05	ELECTRO 2200UF 16WV	
C3			CK73GB1H103K	CHIP C 0.010UF K	
C4			CK73FB1E474K	CHIP C 0.47UF K	
C5			CK73GB1H103K	CHIP C 0.010UF K	
C6			CK73FB1C105K	CHIP C 1.0UF K	
C7			CK73GB1H104K	CHIP C 0.10UF K	
C9,10			CK73GB1H104K	CHIP C 0.10UF K	
C11			CC73GCH1H151J	CHIP C 150PF J	
C12-14			CK73GB1H104K	CHIP C 0.10UF K	
C15			CK73GB1A474K	CHIP C 0.47UF K	
C16			CK73EB1E225K	CHIP C 2.2UF K	
C17,18			CK73GB1H102K	CHIP C 1000PF K	
C19,20			CK73GB1H104K	CHIP C 0.10UF K	
C21			C93-1367-05	CHIP C 10UF K	
C22			CC73GCH1H391J	CHIP C 390PF J	
C23			C93-1367-05	CHIP C 10UF K	
C24			CE32AU1A560M	CHIP EL 56UF 10WV	
C25			CK73GB1H104K	CHIP C 0.10UF K	
C26,27			C92-1909-05	ELECTRO 22UF 12.5WV	
C28-30			CK73GB1H104K	CHIP C 0.10UF K	
C31			CC73GCH1H151J	CHIP C 150PF J	
C32-34			CK73GB1H104K	CHIP C 0.10UF K	
C35			CK73GB1A474K	CHIP C 0.47UF K	
C36-38			CK73GB1H102K	CHIP C 1000PF K	
C39,40			CK73GB1H104K	CHIP C 0.10UF K	
C41,42			C93-1367-05	CHIP C 10UF K	
C43,44			CC73GCH1H471J	CHIP C 470PF J	
C45,46			CE32AU1A560M	CHIP EL 56UF 10WV	
C47			CK73FB0J106K	CHIP C 10UF K	
C48-51			CK73GB1H104K	CHIP C 0.10UF K	
C52			CC73GCH1H151J	CHIP C 150PF J	
C53,54			CK73GB1H104K	CHIP C 0.10UF K	
C55			CK73FB0J106K	CHIP C 10UF K	
C56			CK73GB1H104K	CHIP C 0.10UF K	
C57			C92-1685-05	ELECTRO 47UF 6.3WV	
C58			CK73GB1A474K	CHIP C 0.47UF K	
C59-61			CK73GB1H102K	CHIP C 1000PF K	
C62,63			CK73GB1H104K	CHIP C 0.10UF K	
C64,65			C93-1367-05	CHIP C 10UF K	
C66,67			CC73GCH1H471J	CHIP C 470PF J	
C68			CE32AU1A560M	CHIP EL 56UF 10WV	
C69			CE32AU0J121M	CHIP EL 120UF 6.3WV	
C70,71			CK73GB1H104K	CHIP C 0.10UF K	
C72,73			CK73GB1H103K	CHIP C 0.010UF K	
C74			CC73GCH1H101J	CHIP C 100PF J	
C80			CK73EB1C106K	CHIP C 10UF K	
C81			C92-1452-05	ELECTRO 100UF 10WV	
C82			CK73GB1H104K	CHIP C 0.10UF K	
C83			C92-1452-05	ELECTRO 100UF 10WV	
C84			CK73GB1H104K	CHIP C 0.10UF K	
C85			CK73FB0J106K	CHIP C 10UF K	
C86			CK73GB1A105K	CHIP C 1.0UF K	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C91			CE32BM1C221M	CHIP EL 220UF 16WV	
C101-103			CK73GB1H103K	CHIP C 0.010UF K	
C104			CK73FB0J106K	CHIP C 10UF K	
C105			CK73GB1H104K	CHIP C 0.10UF K	
C106,107			CC73GCH1H220J	CHIP C 22PF J	
C108			CK73GB1A105K	CHIP C 1.0UF K	
C109			CK73GB1H103K	CHIP C 0.010UF K	
C110			CK73GB1H104K	CHIP C 0.10UF K	
C112			CK73GB1H103K	CHIP C 0.010UF K	
C113-120			CK73GB1H104K	CHIP C 0.10UF K	
C230,231			CK73FB0J106K	CHIP C 10UF K	
C233			CK73GB1H104K	CHIP C 0.10UF K	
C248			CK73FB0J106K	CHIP C 10UF K	
C249			CC73GCH1H270J	CHIP C 27PF J	E1E2M1 X1C
C249			CC73GCH1H270J	CHIP C 27PF J	
C249			CC73GCH1H470J	CHIP C 47PF J	K
C250			CK73GB1H104K	CHIP C 0.10UF K	
C251			CC73GCH1H150J	CHIP C 15PF J	E1E2M1 X1C
C251			CC73GCH1H150J	CHIP C 15PF J	
C252			CC73GCH1H220J	CHIP C 22PF J	
C253			CC73GCH1H180J	CHIP C 18PF J	
C254			CC73GCH1H270J	CHIP C 27PF J	E1E2M1 X1C
C254			CC73GCH1H270J	CHIP C 27PF J	
C255,256			CK73GB0J225K	CHIP C 2.2UF K	
C257-259			CK73GB1A105K	CHIP C 1.0UF K	
C260			CK73GB1H223K	CHIP C 0.022UF K	
C261			CK73GB0J475K	CHIP C 4.7UF K	
C262			CK73GB1H473K	CHIP C 0.047UF K	
C263-266			CK73GB1A105K	CHIP C 1.0UF K	E1E2M1 X1C
C263-266			CK73GB1A105K	CHIP C 1.0UF K	
C267			CK73GB1A474K	CHIP C 0.47UF K	
C268			CK73FB0J106K	CHIP C 10UF K	
C269			CK73GB1H472K	CHIP C 4700PF K	
C270			CK73GB1A105K	CHIP C 1.0UF K	
C271			CK73FB0J106K	CHIP C 10UF K	
C272,273			CK73GB1A105K	CHIP C 1.0UF K	
C274			CK73GB1H223K	CHIP C 0.022UF K	
C275-280			CK73GB1A105K	CHIP C 1.0UF K	
C281			CK73FB1A225K	CHIP C 2.2UF K	
C282			CK73GB1A105K	CHIP C 1.0UF K	
C283			CK73GB1H103K	CHIP C 0.010UF K	
C284,285			CK73FB1A225K	CHIP C 2.2UF K	
C286			CK73GB1A105K	CHIP C 1.0UF K	
C287-294			CK73GB1H104K	CHIP C 0.10UF K	E1E2M1 X1C
C287-294			CK73GB1H104K	CHIP C 0.10UF K	
C289-294			CK73GB1H104K	CHIP C 0.10UF K	K
C400			CK73GB1H332K	CHIP C 3300PF K	
C401,402			CC73GCH1H681J	CHIP C 680PF J	
C403			CK73GB1H104K	CHIP C 0.10UF K	
C404			CK73EB1C106K	CHIP C 10UF K	
C405			CK73GB1H332K	CHIP C 3300PF K	
C406,407			CC73GCH1H681J	CHIP C 680PF J	
C408			CK73EB1A475K	CHIP C 4.7UF K	
C409			CC73GCH1H101J	CHIP C 100PF J	
C410			CK73EB1A475K	CHIP C 4.7UF K	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C411			CC73GCH1H101J	CHIP C 100PF J		C751-757			CK73GB1H104K	CHIP C 0.10UF K	
C412			CK73EB1C106K	CHIP C 10UF K		C759-765			CK73GB1H104K	CHIP C 0.10UF K	
C413,414			CK73GB1H104K	CHIP C 0.10UF K		C770-775			CK73GB1H104K	CHIP C 0.10UF K	
C415			CK73FB0J106K	CHIP C 10UF K		C778			CC73GCH1H100D	CHIP C 10PF D	
C416,417			CK73GB1H104K	CHIP C 0.10UF K		C779,780			CK73GB1H103K	CHIP C 0.010UF K	
C419			CK73GB1H104K	CHIP C 0.10UF K		C782			CK73GB1H104K	CHIP C 0.10UF K	
C421			CK73GB1H104K	CHIP C 0.10UF K		C800-809			CK73GB1H104K	CHIP C 0.10UF K	
C470			CK73GB1H104K	CHIP C 0.10UF K		C810,811			CC73GCH1H471J	CHIP C 470PF J	
C471			CK73FB0J106K	CHIP C 10UF K		C812-814			CK73GB1H104K	CHIP C 0.10UF K	
C472,473			CK73GB1H104K	CHIP C 0.10UF K		C815,816			CK73FB0J106K	CHIP C 10UF K	
C501			CK73GB1H104K	CHIP C 0.10UF K		C817			C92-1452-05	ELECTRO 100UF 10WV	
C502			C92-1452-05	ELECTRO 100UF 10WV		C818-823			CK73GB1H104K	CHIP C 0.10UF K	
C520			CK73FB0J106K	CHIP C 10UF K		C825,826			CC73GCH1H150J	CHIP C 15PF J	
C521			CC73GCH1H101J	CHIP C 100PF J		C830			CK73GB1H104K	CHIP C 0.10UF K	
C561-567			CK73GB1H104K	CHIP C 0.10UF K		C832			CC73GCH1H331J	CHIP C 330PF J	
C581			CK73GB1H104K	CHIP C 0.10UF K		C833			CK73FB1C105K	CHIP C 1.0UF K	
C601-606			CK73GB1H104K	CHIP C 0.10UF K		C834			CK73GB1A105K	CHIP C 1.0UF K	
C607			CK73GB1A105K	CHIP C 1.0UF K		C835			CK73GB1H153K	CHIP C 0.015UF K	
C608-614			CK73GB1H104K	CHIP C 0.10UF K		C836			CK73EB1A475K	CHIP C 4.7UF K	
C615,616			CK73FB0J106K	CHIP C 10UF K		C837			CC73GCH1H151J	CHIP C 150PF J	
C617			CK73GB1A105K	CHIP C 1.0UF K		C838			CC73GCH1H102J	CHIP C 1000PF J	
C618-628			CK73GB1H104K	CHIP C 0.10UF K		C839-841			CK73GB1H104K	CHIP C 0.10UF K	
C630			CK73GB1H104K	CHIP C 0.10UF K		C850			CK73GB1H104K	CHIP C 0.10UF K	
C640			CK73GB1H104K	CHIP C 0.10UF K		C851			CK73FB0J106K	CHIP C 10UF K	
C641,642			CC73GCH1H060D	CHIP C 6.0PF D		C852,853			CK73GB1H104K	CHIP C 0.10UF K	
C643-645			CK73GB1H104K	CHIP C 0.10UF K		C854			CK73FB0J106K	CHIP C 10UF K	
C646			CC73GCH1H101J	CHIP C 100PF J		C855-870			CK73GB1H104K	CHIP C 0.10UF K	
C650			CK73GB1H104K	CHIP C 0.10UF K		C871			CK73GB1A105K	CHIP C 1.0UF K	
C651,652			CK73GB1A105K	CHIP C 1.0UF K		C872			CK73GB1H104K	CHIP C 0.10UF K	
C654-656			CK73GB1A105K	CHIP C 1.0UF K		C900			CK73GB1H104K	CHIP C 0.10UF K	
C657,658			CK73GB1H104K	CHIP C 0.10UF K		C908			CC73GCH1H101J	CHIP C 100PF J	
C659			C92-1452-05	ELECTRO 100UF 10WV		C910,911			CK73FB1C105K	CHIP C 1.0UF K	
C660			CK73FB0J106K	CHIP C 10UF K		C913			CC73GCH1H101J	CHIP C 100PF J	
C661,662			CK73GB1H104K	CHIP C 0.10UF K		C914			CK73GB1A105K	CHIP C 1.0UF K	
C663			CK73FB0J106K	CHIP C 10UF K		C991			CC73GCH1H331J	CHIP C 330PF J	
C664			C92-1452-05	ELECTRO 100UF 10WV		CN1			E41-2550-05	PIN ASSY	
C665-668			CK73GB1H104K	CHIP C 0.10UF K		CN501			E41-2197-05	FLAT CABLE CONNECTOR	
C669			CC73GCH1H101J	CHIP C 100PF J		CN800			E41-2543-05	PIN ASSY	
C670			CK73GB1H104K	CHIP C 0.10UF K		CN903			E41-2077-05	PIN ASSY	
C671,672			CK73GB1A105K	CHIP C 1.0UF K		CN904			E41-2051-05	PIN ASSY	
C673,674			CK73GB1H104K	CHIP C 0.10UF K		CN905			E41-2526-05	FLAT CABLE CONNECTOR	
C675			CK73GB1A105K	CHIP C 1.0UF K		CN906	*		E41-2542-05	FLAT CABLE CONNECTOR	
C700-709			CK73GB1H104K	CHIP C 0.10UF K		CN908			E41-2529-05	PIN ASSY	
C710			CK73GB1A105K	CHIP C 1.0UF K		CF1-6			L72-0780-05	CERAMIC FILTER	
C711-720			CK73GB1H104K	CHIP C 0.10UF K		L2			L79-0958-05	LINE FILTER	
C721			CK73FB1C105K	CHIP C 1.0UF K		L3			L92-0373-05	CHIP FERRITE	
C722-729			CK73GB1H104K	CHIP C 0.10UF K		L4			L19-0733-15	TRANSFORMER FOR CONVERTER	
C730-732			CK73FB1C105K	CHIP C 1.0UF K		L5			L33-2248-05	CHOKE COIL	
C733-740			CK73GB1H104K	CHIP C 0.10UF K		L6,7			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C741			CK73FB1C105K	CHIP C 1.0UF K		L8,9			L33-1914-05	CHOKE COIL	
C742			C92-1452-05	ELECTRO 100UF 10WV		L10			L33-2248-05	CHOKE COIL	
C743,744			CK73FB0J106K	CHIP C 10UF K		L11			L33-1906-05	CHOKE COIL	
C745,746			CC73GCH1H101J	CHIP C 100PF J		L101			L92-0319-05	CHIP FERRITE	
C749			CK73GB1H104K	CHIP C 0.10UF K		L230			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C750			CK73FB0J106K	CHIP C 10UF K							

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L232			L41-4705-33	SMALL FIXED INDUCTOR	
L400,401			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L520			L92-0373-05	CHIP FERRITE	
L560			L92-0373-05	CHIP FERRITE	
L601			L92-0373-05	CHIP FERRITE	
L603			L92-0373-05	CHIP FERRITE	
L640,641			L92-0373-05	CHIP FERRITE	
L650			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L651,652			L92-0373-05	CHIP FERRITE	
L700,701			L92-0319-05	CHIP FERRITE	
L702			L92-0373-05	CHIP FERRITE	
L800			L92-0319-05	CHIP FERRITE	
L801			L92-0373-05	CHIP FERRITE	
L830			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
X101			L77-2917-05	CRYSTAL RESONATOR (32.768KHZ)	
X102			L78-1210-05	RESONATOR (4.95MHZ)	
X232			L77-2806-05	CRYSTAL RESONATOR (3.579545MHZ)	
X233			L77-2807-05	CRYSTAL RESONATOR (4.433619MHZ)	E1E2M1
X233			L77-2807-05	CRYSTAL RESONATOR (4.433619MHZ)	X1C
X540			L77-2866-05	CRYSTAL RESONATOR (27MHZ)	
X830			L78-0549-05	RESONATOR (15.734KHZ)	
CP501-505			RK74HB1J471J	CHIP-COM 470 J 1/16W	
CP506-509			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP601-604			RK74HB1J472J	CHIP-COM 4.7K J 1/16W	
CP605			RK74HB1J470J	CHIP-COM 47 J 1/16W	
CP606-612			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP613,614			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CP615-618			RK74HB1J472J	CHIP-COM 4.7K J 1/16W	
CP619-627			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP700-709			RK74HB1J680J	CHIP-COM 68 J 1/16W	
CP710-712			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP713-716			RK74HB1J680J	CHIP-COM 68 J 1/16W	
CP718			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP750-757			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP800-807			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP808-815			RK74HB1J470J	CHIP-COM 47 J 1/16W	
CP816-824			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP825-837			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP839,840			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CP841,842			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CP850-857			RK74HB1J470J	CHIP-COM 47 J 1/16W	
CP858			RK74HB1J103J	CHIP-COM 10K J 1/16W	
R1			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R2			RK73GB2A151J	CHIP R 150 J 1/10W	
R3			R92-5088-05	CHIP R 3.3K J 3/4W	
R4			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R5			RK73GB2A153J	CHIP R 15K J 1/10W	
R6			RK73FB2B123J	CHIP R 12K J 1/8W	
R7			RK73GB2A473J	CHIP R 47K J 1/10W	
R9			RK73GB2A473J	CHIP R 47K J 1/10W	
R10			RK73GB2A112J	CHIP R 1.1K J 1/10W	
R11			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R13			RN73GH1J473D	CHIP R 47K D 1/16W	
R14			RN73GH1J392D	CHIP R 3.9K D 1/16W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R15			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R16			RN73GH1J114D	CHIP R 110K D 1/16W	
R18			RN73GH1J243D	CHIP R 24K D 1/16W	
R19			RN73GH1J4021D	CHIP R 4.02K D 1/16W	
R20			RN73GH1J132D	CHIP R 1.3K D 1/16W	
R21			RN73GH1J393D	CHIP R 39K D 1/16W	
R22			RN73GH1J133D	CHIP R 13K D 1/16W	
R23			RK73GB2A103J	CHIP R 10K J 1/10W	
R24			RN73GH1J103D	CHIP R 10K D 1/16W	
R25			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R26			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R27			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R28			RK73GB2A273J	CHIP R 27K J 1/10W	
R29			RK73GB2A103J	CHIP R 10K J 1/10W	
R30			RN73GH1J393D	CHIP R 39K D 1/16W	
R31,32			RK73GB2A104J	CHIP R 100K J 1/10W	
R33,34			RK73GB2A100J	CHIP R 10 J 1/10W	
R37			RK73GB2A100J	CHIP R 10 J 1/10W	
R38			RK73GB2A101J	CHIP R 100 J 1/10W	
R39			R92-3475-05	CHIP R 0.27 F 1/2W	
R45			RK73GB2A104J	CHIP R 100K J 1/10W	
R46			RN73GH1J114D	CHIP R 110K D 1/16W	
R48			RN73GH1J243D	CHIP R 24K D 1/16W	
R49			RK73GH2A182D	CHIP R 1.8K D 1/10W	
R50			RN73GH1J393D	CHIP R 39K D 1/16W	
R51			RN73GH1J182D	CHIP R 1.8K D 1/16W	
R52			RN73GH1J133D	CHIP R 13K D 1/16W	
R53			RK73GB2A103J	CHIP R 10K J 1/10W	
R55			RN73GH1J163D	CHIP R 16K D 1/16W	
R56			RN73GH1J133D	CHIP R 13K D 1/16W	
R57			RK73GB2A104J	CHIP R 100K J 1/10W	
R58			RN73GH1J123D	CHIP R 12K D 1/16W	
R59			RN73GH1J152D	CHIP R 1.5K D 1/16W	
R60			RN73GH1J243D	CHIP R 24K D 1/16W	
R61			RK73GB2A104J	CHIP R 100K J 1/10W	
R62,63			RK73GB2A100J	CHIP R 10 J 1/10W	
R66,67			RK73GB2A101J	CHIP R 100 J 1/10W	
R68			RN73GH1J114D	CHIP R 110K D 1/16W	
R70			RN73GH1J243D	CHIP R 24K D 1/16W	
R71			RN73GH1J393D	CHIP R 39K D 1/16W	
R72			RN73GH1J472D	CHIP R 4.7K D 1/16W	
R73			RN73GH1J153D	CHIP R 15K D 1/16W	
R74			RN73GH1J133D	CHIP R 13K D 1/16W	
R75			RK73GB2A103J	CHIP R 10K J 1/10W	
R76			RN73GH1J103D	CHIP R 10K D 1/16W	
R77			RN73GH1J473D	CHIP R 47K D 1/16W	
R78,79			RK73GB2A104J	CHIP R 100K J 1/10W	
R80,81			RK73GH2A334D	CHIP R 330K D 1/10W	
R82			RN73GH1J682D	CHIP R 6.8K D 1/16W	
R83			RN73GH1J104D	CHIP R 100K D 1/16W	
R84			RN73GH1J683D	CHIP R 68K D 1/16W	
R85,86			RK73GB2A224J	CHIP R 220K J 1/10W	
R88			RK73GB2A224J	CHIP R 220K J 1/10W	
R89			RN73GH1J104D	CHIP R 100K D 1/16W	
R90			RN73GH1J513D	CHIP R 51K D 1/16W	

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K : DDX8017 (North America) X1 : DDX8047 (Australia)  
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△ Indicates safety critical components.

# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R91			RN73GH1J333D	CHIP R 33K D 1/16W		R231			RK73GB2A203J	CHIP R 20K J 1/10W	
R92,93			RK73GB2A224J	CHIP R 220K J 1/10W		R232			RK73GB2A303J	CHIP R 30K J 1/10W	
R94			RK73GB2A202J	CHIP R 2.0K J 1/10W		R233			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R95,96			RK73GB2A224J	CHIP R 220K J 1/10W		R234			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R97			RK73GB2A114J	CHIP R 110K J 1/10W		R235			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R98,99			RK73GB2A100J	CHIP R 10 J 1/10W		R237			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R105			RK73GB2A103J	CHIP R 10K J 1/10W		R238			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R107			RK73GB2A103J	CHIP R 10K J 1/10W	X1C	R239			RK73GB2A153J	CHIP R 15K J 1/10W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	K	R241			RK73GB2A303J	CHIP R 30K J 1/10W	
R108,109			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2M1	R247			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R110			RK73GB2A103J	CHIP R 10K J 1/10W	X1C	R248-251			RK73GB2A101J	CHIP R 100 J 1/10W	
R110,111			RK73GB2A103J	CHIP R 10K J 1/10W	K	R253			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R111			RK73GB2A103J	CHIP R 10K J 1/10W	M1	R254			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2M1
R112,113			RK73GB2A103J	CHIP R 10K J 1/10W	C	R254			RK73GB2A103J	CHIP R 10K J 1/10W	X1C
R112,113			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2M1	R255			RK73GB2A152J	CHIP R 1.5K J 1/10W	
R113			RK73GB2A103J	CHIP R 10K J 1/10W	KM1	R256			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R114,115			RK73GB2A104J	CHIP R 100K J 1/10W		R257,258			RK73GB2A101J	CHIP R 100 J 1/10W	
R116			RK73GB2A101J	CHIP R 100 J 1/10W		R259			RK73GB2A103J	CHIP R 10K J 1/10W	
R117			RK73GB2A104J	CHIP R 100K J 1/10W		R260			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R118			RK73GB2A103J	CHIP R 10K J 1/10W		R261			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R119,120			RK73GB2A473J	CHIP R 47K J 1/10W		R262-265			RK73GB2A101J	CHIP R 100 J 1/10W	
R121,122			RK73GB2A102J	CHIP R 1.0K J 1/10W		R267			RK73GB2A103J	CHIP R 10K J 1/10W	
R125-128			RK73GB2A104J	CHIP R 100K J 1/10W		R269			RN73GH1J203D	CHIP R 20K D 1/16W	
R129			RK73GB2A123J	CHIP R 12K J 1/10W		R270			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R130			RK73GB2A102J	CHIP R 1.0K J 1/10W		R271			RK73GB2A104J	CHIP R 100K J 1/10W	
R131			RK73GB2A123J	CHIP R 12K J 1/10W		R272			RN73GH1J303D	CHIP R 30K D 1/16W	
R132			RK73GB2A333J	CHIP R 33K J 1/10W		R400,401			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R133,134			RK73GB2A123J	CHIP R 12K J 1/10W		R402			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R135			RK73GB2A514J	CHIP R 510K J 1/10W		R403,404			RK73GB2A201J	CHIP R 200 J 1/10W	
R136			RK73GB2A102J	CHIP R 1.0K J 1/10W		R405			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R138			RK73GB2A473J	CHIP R 47K J 1/10W		R406,407			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R141,142			RK73GB2A473J	CHIP R 47K J 1/10W		R408			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R143,144			RK73GB2A103J	CHIP R 10K J 1/10W		R409,410			RK73GB2A201J	CHIP R 200 J 1/10W	
R145,146			RK73GB2A101J	CHIP R 100 J 1/10W		R411			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R147			RK73GB2A102J	CHIP R 1.0K J 1/10W		R412			RK73GB2A223J	CHIP R 22K J 1/10W	
R148-152			RK73GB2A473J	CHIP R 47K J 1/10W		R413			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R153			RK73GB2A101J	CHIP R 100 J 1/10W		R414			RK73GB2A471J	CHIP R 470 J 1/10W	
R154			RK73GB2A473J	CHIP R 47K J 1/10W		R415			RK73GB2A100J	CHIP R 10 J 1/10W	
R155			RK73GB2A104J	CHIP R 100K J 1/10W		R416			RK73GB2A223J	CHIP R 22K J 1/10W	
R156			RK73GB2A101J	CHIP R 100 J 1/10W		R417			RK73GB2A471J	CHIP R 470 J 1/10W	
R157			RK73GB2A104J	CHIP R 100K J 1/10W		R418			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R163			RK73GB2A104J	CHIP R 100K J 1/10W		R419			RK73GB2A100J	CHIP R 10 J 1/10W	
R164			RK73GB2A102J	CHIP R 1.0K J 1/10W		R420			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R165			RK73GB2A473J	CHIP R 47K J 1/10W		R421			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R166,167			RK73GB2A102J	CHIP R 1.0K J 1/10W		R422			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R168			RK73GB2A223J	CHIP R 22K J 1/10W		R423			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R169			RK73GB2A103J	CHIP R 10K J 1/10W		R424			RK73GB2A103J	CHIP R 10K J 1/10W	
R170			RK73GB2A563J	CHIP R 56K J 1/10W		R425			RK73GB2A181J	CHIP R 180 J 1/10W	
R171,172			RK73GB2A473J	CHIP R 47K J 1/10W		R426			RK73GB2A111J	CHIP R 110 J 1/10W	
R176			RK73GB2A104J	CHIP R 100K J 1/10W		R430			RK73GB2A101J	CHIP R 100 J 1/10W	
R177			RK73GB2A153J	CHIP R 15K J 1/10W		R432-434			RK73GB2A101J	CHIP R 100 J 1/10W	
R178			RN73GH1J163D	CHIP R 16K D 1/16W		R470-472			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R179			RN73GH1J392D	CHIP R 3.9K D 1/16W		R474			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R180			RN73GH1J333D	CHIP R 33K D 1/16W		R475			RK73GB2A103J	CHIP R 10K J 1/10W	
R181-183			RK73GB2A473J	CHIP R 47K J 1/10W		R476			RK73GB2A222J	CHIP R 2.2K J 1/10W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.



# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R477			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R500			RK73GB2A302J	CHIP R 3.0K J 1/10W	
R501			RK73GB2A330J	CHIP R 33 J 1/10W	
R502			RK73GB2A103J	CHIP R 10K J 1/10W	
R503			RK73GB2A820J	CHIP R 82 J 1/10W	
R504,505			RK73GB2A220J	CHIP R 22 J 1/10W	
R506,507			RK73GB2A820J	CHIP R 82 J 1/10W	
R508			RK73GB2A471J	CHIP R 470 J 1/10W	
R509			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R510-512			RK73GB2A103J	CHIP R 10K J 1/10W	
R520			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R522-528			RK73GB2A103J	CHIP R 10K J 1/10W	
R529			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R530			RK73GB2A101J	CHIP R 100 J 1/10W	
R601-603			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R604			RK73GB2A470J	CHIP R 47 J 1/10W	
R611			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R612,613			RK73GB2A220J	CHIP R 22 J 1/10W	
R614			RK73GB2A330J	CHIP R 33 J 1/10W	
R615-617			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R618,619			RK73GB2A220J	CHIP R 22 J 1/10W	
R620-622			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R625-627			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R640,641			RK73GB2A331J	CHIP R 330 J 1/10W	
R642			RK73GB2A471J	CHIP R 470 J 1/10W	
R643			RK73GB2A151J	CHIP R 150 J 1/10W	
R644			RK73GB2A221J	CHIP R 220 J 1/10W	
R645			RK73GB2A101J	CHIP R 100 J 1/10W	
R650			RK73GB2A103J	CHIP R 10K J 1/10W	
R651-654			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R655			RK73GB2A750J	CHIP R 75 J 1/10W	
R656-659			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R660			RK73GB2A103J	CHIP R 10K J 1/10W	
R661,662			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R663,664			RK73GB2A101J	CHIP R 100 J 1/10W	
R665-668			RN73GH1J750D	CHIP R 75 D 1/16W	
R669			RN73GH1J151D	CHIP R 150 D 1/16W	
R670			RK73GB2A103J	CHIP R 10K J 1/10W	
R671,672			RK73GB2A104J	CHIP R 100K J 1/10W	
R673			RN73GH1J151D	CHIP R 150 D 1/16W	
R675,676			RK73GB2A101J	CHIP R 100 J 1/10W	
R678			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R679-681			RK73GB2A101J	CHIP R 100 J 1/10W	
R682			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R683-687			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R701			RK73GB2A330J	CHIP R 33 J 1/10W	
R702			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R703			RN73GH1J151D	CHIP R 150 D 1/16W	
R704			RK73GB2A104J	CHIP R 100K J 1/10W	
R705			RN73GH1J151D	CHIP R 150 D 1/16W	
R706,707			RK73GB2A104J	CHIP R 100K J 1/10W	
R708			RN73GH1J151D	CHIP R 150 D 1/16W	
R709,710			RK73GB2A104J	CHIP R 100K J 1/10W	
R711			RK73GB2A103J	CHIP R 10K J 1/10W	
R712-717			RK73GB2A104J	CHIP R 100K J 1/10W	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R718-721			RN73GH1J103D	CHIP R 10K D 1/16W	
R722			RN73GH1J433D	CHIP R 43K D 1/16W	
R723			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R724			RK73GB2A104J	CHIP R 100K J 1/10W	
R725-727			RK73GB2A101J	CHIP R 100 J 1/10W	
R728			RK73GB2A330J	CHIP R 33 J 1/10W	
R729			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R730			RK73GB2A103J	CHIP R 10K J 1/10W	
R771,772			RK73GB2A330J	CHIP R 33 J 1/10W	
R775			RK73GB2A101J	CHIP R 100 J 1/10W	
R776,777			RK73GB2A153J	CHIP R 15K J 1/10W	
R778,779			RK73GB2A561J	CHIP R 560 J 1/10W	
R781			RK73GB2A561J	CHIP R 560 J 1/10W	
R801			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R802-806			RK73GB2A104J	CHIP R 100K J 1/10W	
R807			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R808			RK73GB2A103J	CHIP R 10K J 1/10W	
R809			RK73GB2A104J	CHIP R 100K J 1/10W	
R810			RN73GH1J243D	CHIP R 24K D 1/16W	
R811			RN73GH1J681D	CHIP R 680 D 1/16W	
R812			RN73GH1J113D	CHIP R 11K D 1/16W	
R815			RK73GB2A104J	CHIP R 100K J 1/10W	
R816			RK73GB2A103J	CHIP R 10K J 1/10W	
R817,818			RK73GB2A104J	CHIP R 100K J 1/10W	
R819,820			RK73GB2A220J	CHIP R 22 J 1/10W	
R821			RK73GB2A104J	CHIP R 100K J 1/10W	
R823,824			RK73GB2A103J	CHIP R 10K J 1/10W	
R830			RK73GB2A103J	CHIP R 10K J 1/10W	
R846			RK73GB2A330J	CHIP R 33 J 1/10W	
R850			RK73GB2A331J	CHIP R 330 J 1/10W	
R851			RK73GB2A914J	CHIP R 910K J 1/10W	
R852			RK73GB2A331J	CHIP R 330 J 1/10W	
R853			RK73GB2A101J	CHIP R 100 J 1/10W	
R854			RN73GH1J302D	CHIP R 3.0K D 1/16W	
R855,856			RK73GB2A101J	CHIP R 100 J 1/10W	
R857			RN73GH1J182D	CHIP R 1.8K D 1/16W	
R858			RN73GH1J471D	CHIP R 470 D 1/16W	
R859-861			RK73GB2A470J	CHIP R 47 J 1/10W	
R862			RK73GB2A203J	CHIP R 20K J 1/10W	
R863,864			RK73GB2A103J	CHIP R 10K J 1/10W	
R909			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R912			RK73EB2E102J	CHIP R 1.0K J 1/4W	K
R913			RK73GB2A104J	CHIP R 100K J 1/10W	
R915			RK73GB2A203J	CHIP R 20K J 1/10W	
R916-919			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R920-925			RK73EB2E101J	CHIP R 100 J 1/4W	
R931			RK73GB2A104J	CHIP R 100K J 1/10W	
R933			RK73GB2A104J	CHIP R 100K J 1/10W	
R939-946			RK73GB2A101J	CHIP R 100 J 1/10W	
R949-955			RK73GB2A101J	CHIP R 100 J 1/10W	
R972,973			RK73GB2A101J	CHIP R 100 J 1/10W	
R974,975			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R976			RK73GB2A334J	CHIP R 330K J 1/10W	
R977			RK73GB2A104J	CHIP R 100K J 1/10W	
R978			RK73GB2A224J	CHIP R 220K J 1/10W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R981-984			RK73GB2A220J	CHIP R 22 J 1/10W		W912			R92-1252-05	CHIP R 0 OHM J 1/16W	
R985,986			RK73GB2A101J	CHIP R 100 J 1/10W		W914			R92-1252-05	CHIP R 0 OHM J 1/16W	
R987,988			RK73EB2E331J	CHIP R 330 J 1/4W		W916-918			R92-1252-05	CHIP R 0 OHM J 1/16W	
R994			RK73GB2A154J	CHIP R 150K J 1/10W		W920			R92-1252-05	CHIP R 0 OHM J 1/16W	
R995			RK73GB2A222J	CHIP R 2.2K J 1/10W		W922,923			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R996			RK73GB2A122J	CHIP R 1.2K J 1/10W		D1			1SR154-400	DIODE	
R997			RK73GB2A473J	CHIP R 47K J 1/10W		D2			EC31QS04AG	DIODE	
R998			RN73GH1J472D	CHIP R 4.7K D 1/16W		D3			DAN202U	DIODE	
R999			RN73GH1J243D	CHIP R 24K D 1/16W		D4			SB05-05CP-E	DIODE	
W1-3			R92-1252-05	CHIP R 0 OHM J 1/16W		D5			UDZS6.8B	ZENER DIODE	
W4			RK73EB2E000J	CHIP R 0.0 J 1/4W		D6			DAN202U	DIODE	
W5-11			R92-1252-05	CHIP R 0 OHM J 1/16W		D7			UDZS6.2B	ZENER DIODE	
W12,13			RK73EB2E000J	CHIP R 0.0 J 1/4W		D8			SB05-05CP-E	DIODE	
W14			R92-1252-05	CHIP R 0 OHM J 1/16W		D10-13			EC31QS04AG	DIODE	
W15,16			RK73EB2E000J	CHIP R 0.0 J 1/4W		D231			DAN202U	DIODE	
W18-20			R92-1252-05	CHIP R 0 OHM J 1/16W		D233			DA204U	DIODE	
W21			RK73EB2E000J	CHIP R 0.0 J 1/4W		D400,401			STZ6.2N	ZENER DIODE	
W30			R92-1252-05	CHIP R 0 OHM J 1/16W		D402			DAP202U	DIODE	
W37			R92-1252-05	CHIP R 0 OHM J 1/16W		D404			DA204U	DIODE	
W81,82			R92-1252-05	CHIP R 0 OHM J 1/16W		D501,502			DA204U	DIODE	
W102,103			R92-1252-05	CHIP R 0 OHM J 1/16W		D850			HVD133-E	DIODE	
W230,231			R92-1252-05	CHIP R 0 OHM J 1/16W		D900,901			DA204U	DIODE	
W233			R92-1252-05	CHIP R 0 OHM J 1/16W		D917,918			DA204U	DIODE	
W235-237			R92-1252-05	CHIP R 0 OHM J 1/16W		D922,923			DAN202U	DIODE	
W240			R92-1252-05	CHIP R 0 OHM J 1/16W		D926			UDZS6.2B	ZENER DIODE	
W400,401			R92-1252-05	CHIP R 0 OHM J 1/16W		D927-933			AVRM1608120M6A	VARIATOR	
W472-474			R92-1252-05	CHIP R 0 OHM J 1/16W		D936-938			AVRM1608120M6A	VARIATOR	
W477-481			R92-1252-05	CHIP R 0 OHM J 1/16W		D970			MA2S784-F	DIODE	
W501			R92-1252-05	CHIP R 0 OHM J 1/16W		IC1-3			FA7707E-H1	ANALOGUE IC	
W515			R92-1252-05	CHIP R 0 OHM J 1/16W		IC9			SI-3012KM	ANALOGUE IC	
W522			R92-1252-05	CHIP R 0 OHM J 1/16W		IC80			SI-3033KMS	ANALOGUE IC	
W601			R92-1252-05	CHIP R 0 OHM J 1/16W		IC81			UPC2905ATAZ	ANALOGUE IC	
W604			R92-1252-05	CHIP R 0 OHM J 1/16W		IC82			PQ1X331M2ZPH	ANALOGUE IC	
W607-609			R92-1252-05	CHIP R 0 OHM J 1/16W		IC101			BR24L08FV-W	ROM IC	
W652			R92-1252-05	CHIP R 0 OHM J 1/16W		IC103			TC7SH08FU-F	MOS-IC	
W654			R92-1252-05	CHIP R 0 OHM J 1/16W		IC104			703264YGJ501A	MICROCONTROLLER IC	
W658			R92-1252-05	CHIP R 0 OHM J 1/16W		IC105			S-80830CNNB-G	MOS-IC	
W660			R92-1252-05	CHIP R 0 OHM J 1/16W		IC107			LB1836M-TLM-E	ANALOGUE IC	
W662,663			R92-1252-05	CHIP R 0 OHM J 1/16W		IC108			TC74VHCT08AFT	MOS-IC	
W700-703			R92-1252-05	CHIP R 0 OHM J 1/16W		IC237			AN2546FH-AV	ANALOGUE IC	
W750,751			R92-1252-05	CHIP R 0 OHM J 1/16W		IC238			TC7SH04FU-F	MOS-IC	
W770			R92-1252-05	CHIP R 0 OHM J 1/16W		IC239			TDA4665T-F	ANALOGUE IC	E1E2M1
W773			R92-1252-05	CHIP R 0 OHM J 1/16W		IC239			TDA4665T-F	ANALOGUE IC	X1C
W776			R92-1252-05	CHIP R 0 OHM J 1/16W		IC240			MM1389XFBE-E	ANALOGUE IC	
W800-803			R92-1252-05	CHIP R 0 OHM J 1/16W		IC400			NJM4580V-ZB	ANALOGUE IC	
W805,806			R92-1252-05	CHIP R 0 OHM J 1/16W		IC401			TA78L05F-F	ANALOGUE IC	
W830,831			R92-1252-05	CHIP R 0 OHM J 1/16W		IC402			AK4382AVT	ANALOGUE IC	
W833			R92-1252-05	CHIP R 0 OHM J 1/16W		IC403			TC7SHU04FU-F	MOS-IC	
W850-854			R92-1252-05	CHIP R 0 OHM J 1/16W		IC470			M43212VNI8R01	MOS-IC	
W901			R92-1252-05	CHIP R 0 OHM J 1/16W		IC500			PQ070XH02ZPH	ANALOGUE IC	
W903			R92-1252-05	CHIP R 0 OHM J 1/16W		IC520			M29LV160T72U5	ROM IC	
W904			RK73FB2B000J	CHIP R 0.0 J 1/8W		IC560			K4S281632FUP75	DRAM IC	
W905			RK73EB2E000J	CHIP R 0.0 J 1/4W		IC601			ES62185F	MOS-IC	
W908			R92-1252-05	CHIP R 0 OHM J 1/16W		IC640			SM8707HV-G-E2	ANALOGUE IC	
W910			RK73FB2B000J	CHIP R 0.0 J 1/8W		IC641			TC7WH74FU-F	MOS-IC	

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△ Indicates safety critical components.

# PARTS LIST

## VIDEO CONTROL UNIT (X14-955/956x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC650 IC651 IC652 IC654 IC700			MM1567AJBE-E UPC2905ATAZ ADV7170KSUZ MM1508XNRE-E MN677611UB	ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC	
IC701 IC750,751 IC770 IC771 IC772			SI-3018KM K4S641632HUC7 TC7S02FU-F TC74LCX74FT TC7SH04FU-F	ANALOGUE IC DRAM IC MOS-IC MOS-IC MOS-IC	
IC773 IC774 IC779 IC781 IC800			TC7W08FU-F TC7W32FU-F TC7SH00FU-F TC7SH04FU-F 6417706F120DV	MOS-IC MOS-IC MOS-IC MOS-IC MICROPROCESSOR IC	
IC801 IC830 IC831 IC832,833 IC834			SI-3012KM NJW1303V-ZB TC7SH04FU-F TC7WH74FU-F TC7WH14FU-F	ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC MOS-IC	
IC835 IC836 IC850 IC851 IC852			HD74LV157AT-E TC7SH08FU-F MB29D64E9E4U4 CY6126DLL7ZXI MT48LC2M32P71	MOS-IC MOS-IC ROM IC SRAM IC DRAM IC	
IC853 IC854 IC855 Q1 Q2			HD74LVC08TTP HD74CBT3244T-E TC7SH04FU-F 2SC4081 DTA124EUA	MOS-IC MOS-IC MOS-IC TRANSISTOR DIGITAL TRANSISTOR	
Q3 Q4 Q5 Q6 Q7			DTC144EUA 2SC4081 2SA1576A HAT1038R-E 2SB1189	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR FET TRANSISTOR	
Q8 Q9 Q10 Q11 Q13			2SC4081 DTC144EUA 2SA1576A 2SC4081 HAT1024R-E	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR FET	
Q16 Q19 Q20 Q22 Q23			DTC144EUA HAT1024R-E DTC144EUA HAT1024R-E DTA114TUA	DIGITAL TRANSISTOR FET DIGITAL TRANSISTOR FET DIGITAL TRANSISTOR	
Q24 Q25 Q26 Q27 Q80			2SC4081 DTA114TUA 2SC4081 DTA114TUA DTC144EUA	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q81 Q82 Q83 Q84 Q85			2SC4081 2SA1576A 2SC4081 DTA114EUA 2SC4081	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q86 Q87 Q88 Q89-91 Q92			2SA1576A DTA114TUA 2SB1184 2SC4081 2SA1576A	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q93 Q94 Q95 Q103 Q104			DTC144EUA DTA144EUA IMX9 DTC144EUA DTB123YK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q105 Q106 Q107 Q108 Q109			DTC144EUA DTB123YK DTA144EUA DTC144EUA 2SA1576A	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
Q110 Q111 Q112,113 Q114 Q115			DTC144EUA 2SA1576A 2SC4081 DTA144EUA DTC114TUA	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q171 Q173 Q230,231 Q232 Q233			2SA1576A 2SC4081 2SC4081 2SA1576A DTC114TUA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	E1E2
Q234 Q234 Q236 Q237 Q238,239			2SA1576A 2SA1576A 2SC4081 2SA1576A 2SC4081	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	E1E2M1 X1C
Q240 Q400-402 Q403 Q404,405 Q650			2SA1576A 2SC4081 DTC114TUA DTA114TUA DTA114TUA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q651,652 Q653 Q700 Q701 Q771,772			DTC144EUA DTC114TUA 2SA1576A 2SC4081 2SC4081	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q830 Q831 Q901 Q902			DTA114EUA DTC144EUA DTC124EUA DTC143EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
<b>SWITCH UNIT (X16-2380-00): IN DVD MECHA.</b>					
CN1			E41-2036-05	FLAT CABLE CONNECTOR	
S1,2			S68-0863-05	PUSH SWITCH	
<b>ELECTRIC UNIT (X34-382/383x-xx)</b>					
C5 C6 C7 C8 C9,10			C90-6744-05 CK73GB1H104K CK73FB1C105K CD04BA1H3R3M CK73GB1H103K	ELECTRO 3900UF 16VV CHIP C 0.10UF K CHIP C 1.0UF K ELECTRO 3.3UF 50VV CHIP C 0.010UF K	

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△ Indicates safety critical components.



# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C51			CK73GB1H473K	CHIP C 0.047UF K		C214			CK73GB1H103K	CHIP C 0.010UF K	
C52			CD04AS1V100M	ELECTRO 10UF 35WV		C215,216			CK73GB1H102K	CHIP C 1000PF K	
C55			CD04BJ1E221M	ELECTRO 220UF 25WV		C217-219			CD04AS1V100M	ELECTRO 10UF 35WV	
C56			CD04BJ1A101M	ELECTRO 100UF 10WV		C220			CK73GB1H103K	CHIP C 0.010UF K	
C58			CD04AS1C220M	ELECTRO 22UF 16WV		C221			CK73GB1H102K	CHIP C 1000PF K	
C59		*	CD04BG1C101M	ELECTRO 100UF 16WV		C222-224			CD04AS1V100M	ELECTRO 10UF 35WV	
C60-62			CK73EB1E225K	CHIP C 2.2UF K		C225			CK73GB1H103K	CHIP C 0.010UF K	
C63			CD04BA1C220M	ELECTRO 22UF 16WV		C226			CK73GB1H102K	CHIP C 1000PF K	
C64			CK73EB1E225K	CHIP C 2.2UF K		C227-229			CD04AS1V100M	ELECTRO 10UF 35WV	
C65			CK73FB1C105K	CHIP C 1.0UF K		C230			CK73GB1H103K	CHIP C 0.010UF K	
C67			CD04AY1A221M	ELECTRO 220UF 10WV		C231			CD04AS1C220M	ELECTRO 22UF 16WV	
C69			CK73FB1C105K	CHIP C 1.0UF K		C233			CD04AS1V100M	ELECTRO 10UF 35WV	
C70			CD04AY1A221M	ELECTRO 220UF 10WV		C234			CK73GB1H222K	CHIP C 2200PF K	
C71			CK73GB1H223K	CHIP C 0.022UF K		C235,236			CK73GB1H102K	CHIP C 1000PF K	
C72			CK73GB1H103K	CHIP C 0.010UF K		C237			CK73GB1H222K	CHIP C 2200PF K	
C73,74			CK73EB1E225K	CHIP C 2.2UF K		C238			CD04AS1V100M	ELECTRO 10UF 35WV	
C101			CK73GB1A105K	CHIP C 1.0UF K		C239			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C103			CK73GB1A105K	CHIP C 1.0UF K		C240			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C104			CD04AS1C101M	ELECTRO 100UF 16WV		C241			CD04AS1C220M	ELECTRO 22UF 16WV	
C108-112			C90-6742-05	NP-ELECT 4.7UF 16WV		C242			CK73GB1H103K	CHIP C 0.010UF K	
C113			CK73GB1H103K	CHIP C 0.010UF K		C243			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C150			CD04AS1C470M	ELECTRO 47UF 16WV		C244			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C151,152			CK73GB1H152K	CHIP C 1500PF K		C245			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C153			CD04AS1V100M	ELECTRO 10UF 35WV		C246			CD04AS1C220M	ELECTRO 22UF 16WV	
C154,155			CK73FB1C105K	CHIP C 1.0UF K		C247			CK73GB1H103K	CHIP C 0.010UF K	
C156-161			CD04AW1E3R3M	ELECTRO 3.3UF 25WV		C248			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C162,163			CD04AS1V100M	ELECTRO 10UF 35WV		C251,252			CC73GCH1H100D	CHIP C 10PF D	KE1E2
C164			CK73GB1H103K	CHIP C 0.010UF K		C251,252			CC73GCH1H100D	CHIP C 10PF D	M1
C165			CD04AS1V100M	ELECTRO 10UF 35WV		C255			CE32BM1C100M	CHIP EL 10UF 16WV	KE1E2
C166			CK73GB1H104K	CHIP C 0.10UF K		C255			CE32BM1C100M	CHIP EL 10UF 16WV	M1
C167			CK73GB1H103K	CHIP C 0.010UF K		C256			CC73GCH1H331J	CHIP C 330PF J	KE1E2
C168			CD04AT1H010M	ELECTRO 1UF 50WV		C256			CC73GCH1H331J	CHIP C 330PF J	M1
C170			CD04AS1C470M	ELECTRO 47UF 16WV		C257			CE32BM1C100M	CHIP EL 10UF 16WV	KE1E2
C172			CK73GB1H102K	CHIP C 1000PF K		C257			CE32BM1C100M	CHIP EL 10UF 16WV	M1
C173			CD04AS1H4R7M	ELECTRO 4.7UF 50WV		C258			CK73GB1H103K	CHIP C 0.010UF K	KE1E2
C174			CK73FB1E474K	CHIP C 0.47UF K		C258			CK73GB1H103K	CHIP C 0.010UF K	M1
C175			CK73GB1H102K	CHIP C 1000PF K		C267-270			CK73GB1H103K	CHIP C 0.010UF K	
C176			CK73FB1E474K	CHIP C 0.47UF K		C300			CK73GB1H103K	CHIP C 0.010UF K	
C177			CD04AS1C101M	ELECTRO 100UF 16WV		C301,302			CK73GB1H104K	CHIP C 0.10UF K	
C178,179			CD04AS1H3R3M	ELECTRO 3.3UF 50WV		C304			CK73GB1A105K	CHIP C 1.0UF K	
C180,181			CK73FB1A225K	CHIP C 2.2UF K		C305-307			CK73GB1H103K	CHIP C 0.010UF K	
C182-185			CC73GCH1H101J	CHIP C 100PF J		C308			CD04BJ0J331M	ELECTRO 330UF 6.3WV	
C186			CK73FB1C105K	CHIP C 1.0UF K		C309			CK73GB1H103K	CHIP C 0.010UF K	
C187,188			CD04AS1H3R3M	ELECTRO 3.3UF 50WV		C310			CK73GB1H102K	CHIP C 1000PF K	
C192,193			CD04BJ1H100M	ELECTRO 10UF 50WV		C400,401			CK73GB1A105K	CHIP C 1.0UF K	E1E2
C194-199			CK73GB1H152K	CHIP C 1500PF K		C401			CK73GB1A105K	CHIP C 1.0UF K	KM1X1C
C200			CD04AS1C220M	ELECTRO 22UF 16WV		C403			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C201			CD04AS1V100M	ELECTRO 10UF 35WV		C404			CK73GB1H104K	CHIP C 0.10UF K	
C202			CK73GB1H103K	CHIP C 0.010UF K		C405,406			CK73GB1A105K	CHIP C 1.0UF K	E1E2
C203,204			CD04AS1V100M	ELECTRO 10UF 35WV		C406			CK73GB1A105K	CHIP C 1.0UF K	KM1X1C
C205			CK73GB1H102K	CHIP C 1000PF K		C408			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C206			CD04AS1V100M	ELECTRO 10UF 35WV		C409			CK73GB1H104K	CHIP C 0.10UF K	
C207			CK73GB1H103K	CHIP C 0.010UF K		C410,411			CK73GB1A105K	CHIP C 1.0UF K	E1E2
C208			CK73GB1H102K	CHIP C 1000PF K		C411			CK73GB1A105K	CHIP C 1.0UF K	KM1X1C
C209-213			CD04AS1V100M	ELECTRO 10UF 35WV		C413			CD04AS0J470M	ELECTRO 47UF 6.3WV	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
C414			CK73GB1H104K	CHIP C 0.10UF K	
C415			CK73GB1H103K	CHIP C 0.010UF K	
C416			CK73GB1H561K	CHIP C 560PF K	
C417			CK73GB1A105K	CHIP C 1.0UF K	
C418			CK73GB1H561K	CHIP C 560PF K	
C419			CK73GB1H103K	CHIP C 0.010UF K	
C420,421			CK73GB1H104K	CHIP C 0.10UF K	
C422			CK73GB1H103K	CHIP C 0.010UF K	
C423			CD04AS1C220M	ELECTRO 22UF 16WV	
C424			CD04AS1V100M	ELECTRO 10UF 35WV	
C425,426			CK73GB1A105K	CHIP C 1.0UF K	
C428			CK73GB1H104K	CHIP C 0.10UF K	
C429-431			CK73GB1A105K	CHIP C 1.0UF K	
C432			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C433			CK73GB1H104K	CHIP C 0.10UF K	
C434-436			CK73GB0J225K	CHIP C 2.2UF K	
C437			CD04BJ1C471M	ELECTRO 470UF 16WV	
C438			CK73GB1H104K	CHIP C 0.10UF K	
C442			CD04AS1V100M	ELECTRO 10UF 35WV	
C448,449			CK73GB1H103K	CHIP C 0.010UF K	
C450-452			CD04AY1H220M	ELECTRO 22UF 50WV	
C454,455			CK73GB1A105K	CHIP C 1.0UF K	
C457,458			CK73GB1A105K	CHIP C 1.0UF K	
C461-463			CK73GB1H104K	CHIP C 0.10UF K	
C500			CK73GB1H103K	CHIP C 0.010UF K	
C501,502			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C503			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C504			CD04AS1C220M	ELECTRO 22UF 16WV	
C505			CD04AS1V100M	ELECTRO 10UF 35WV	
C506,507			CK73GB1H104K	CHIP C 0.10UF K	
C508			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C509			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C510,511			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C512			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C513			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C514			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C515,516			CD04AS1H4R7M	ELECTRO 4.7UF 50WV	
C600			CK73GB1H102K	CHIP C 1000PF K	
C803,804			CK73GB1H103K	CHIP C 0.010UF K	
C809			CK73GB1H222K	CHIP C 2200PF K	
CN2			E41-0959-05	PIN ASSY	
CN7			E41-2153-05	FLAT CABLE CONNECTOR	
CN8		*	E41-2478-05	PIN ASSY	
CN9,10		*	E41-2474-05	FLAT CABLE CONNECTOR	
CN11,12		*	E41-2476-05	FLAT CABLE CONNECTOR	
CN13		*	E41-2484-05	PIN ASSY	
CN14		*	E41-2521-05	PIN ASSY	
CN15		*	E41-2522-05	PIN ASSY	
CN250,251			E41-2383-05	PIN ASSY	
CN252,253			E40-9423-05	SOCKET FOR PIN ASSY	
J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J2			E58-0899-05	RECTANGULAR RECEPTACLE	
J500			E56-0865-05	CYLINDRICAL RECEPTACLE	
J502			E58-1034-05	RECTANGULAR RECEPTACLE	
J503			E56-0864-05	CYLINDRICAL RECEPTACLE	

Ref. No.	Add	New	Parts No.	Description	Destination
W253		*	E30-6492-05	CORD WITH PLUG (ANT)	
WH1		*	E39-0778-05	WIRING HARNESS	
L1			L33-1063-25	CHOKE COIL	
L50			L41-2205-33	SMALL FIXED INDUCTOR (22U)	
L150			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L250			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	KE1E2
L250			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	M1
L252			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L254			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L255			L33-1977-05	CHOKE COIL	
L256			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L300			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L301			L92-0330-05	CHIP FERRITE	
L400-402			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L800-802			L92-0373-05	CHIP FERRITE	
X250			L77-2002-05	CRYSTAL RESONATOR	KE1E2
X250			L77-2002-05	CRYSTAL RESONATOR	M1
X300			L78-0892-05	RESONATOR (19M)	
M	2C		N86-2606-48	BINDING HEAD TAPTITE SCREW	
R6			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R7			RK73EB2E103J	CHIP R 10K J 1/4W	
R10,11			RK73PB2H102J	CHIP R 1.0K J 1/2W	
R12			RK73GB2A223J	CHIP R 22K J 1/10W	
R13,14			RK73FB2B472J	CHIP R 4.7K J 1/8W	
R15			RK73SB3A561J	CHIP R 560 J 1W	KM1X1C
R16,17			RK73GB2A223J	CHIP R 22K J 1/10W	KM1X1C
R17			RK73GB2A223J	CHIP R 22K J 1/10W	E1E2
R18			RK73GB2A103J	CHIP R 10K J 1/10W	
R19			RK73GB2A104J	CHIP R 100K J 1/10W	
R20			RK73GB2A183J	CHIP R 18K J 1/10W	
R21			RK73FB2B561J	CHIP R 560 J 1/8W	
R22			RK73GB2A473J	CHIP R 47K J 1/10W	
R24			RK73GB2A683J	CHIP R 68K J 1/10W	
R25			RK73GB2A393J	CHIP R 39K J 1/10W	
R26			RK73GB2A104J	CHIP R 100K J 1/10W	
R27			RK73EB2E101J	CHIP R 100 J 1/4W	
R28			RK73GB2A104J	CHIP R 100K J 1/10W	
R29			RK73GB2A103J	CHIP R 10K J 1/10W	
R30			RK73GB2A474J	CHIP R 470K J 1/10W	
R50			RK73FB2B182J	CHIP R 1.8K J 1/8W	
R51			RK73GB2A104J	CHIP R 100K J 1/10W	
R53			RK73GB2A101J	CHIP R 100 J 1/10W	
R55			RK73FB2B203J	CHIP R 20K J 1/8W	
R56			RK73FB2B221J	CHIP R 220 J 1/8W	
R58			RK73FB2B221J	CHIP R 220 J 1/8W	
R59			RK73FB2B272J	CHIP R 2.7K J 1/8W	
R60			RK73GB2A223J	CHIP R 22K J 1/10W	
R61			RK73GB2A153J	CHIP R 15K J 1/10W	
R63			RK73GH2A243D	CHIP R 24K D 1/10W	
R64			RK73GH2A432D	CHIP R 4.3K D 1/10W	
R67			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R68			RK73GB2A153J	CHIP R 15K J 1/10W	
R69			RK73GB2A470J	CHIP R 47 J 1/10W	

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# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R70			RK73GH2A153D	CHIP R 15K D 1/10W		R209			RK73GB2A223J	CHIP R 22K J 1/10W	
R71			RK73GH2A512D	CHIP R 5.1K D 1/10W		R210			RK73GB2A104J	CHIP R 100K J 1/10W	
R72			RK73GB2A752J	CHIP R 7.5K J 1/10W		R211			RK73GB2A361J	CHIP R 360 J 1/10W	
R73			RK73GB2A274J	CHIP R 270K J 1/10W		R212			RK73EB2E820J	CHIP R 82 J 1/4W	
R74			RK73GB2A563J	CHIP R 56K J 1/10W		R213			RK73FB2B203J	CHIP R 20K J 1/8W	
R75			RK73GB2A470J	CHIP R 47 J 1/10W		R214			RK73FB2B103J	CHIP R 10K J 1/8W	
R76			RK73GB2A103J	CHIP R 10K J 1/10W		R215			RK73GB2A361J	CHIP R 360 J 1/10W	
R77,78			RK73GB2A913J	CHIP R 91K J 1/10W		R216			RK73GB2A104J	CHIP R 100K J 1/10W	
R79			RK73GB2A750J	CHIP R 75 J 1/10W		R217			RK73GB2A223J	CHIP R 22K J 1/10W	
R80			RK73GB2A101J	CHIP R 100 J 1/10W		R218,219			RK73GB2A473J	CHIP R 47K J 1/10W	
R100			RK73GB2A103J	CHIP R 10K J 1/10W		R220			RK73GB2A223J	CHIP R 22K J 1/10W	
R101			RK73GB2A432J	CHIP R 4.3K J 1/10W		R221			RK73GB2A104J	CHIP R 100K J 1/10W	
R102			RK73GB2A103J	CHIP R 10K J 1/10W		R222			RK73EB2E820J	CHIP R 82 J 1/4W	
R103			RK73GB2A333J	CHIP R 33K J 1/10W		R223			RK73FB2B203J	CHIP R 20K J 1/8W	
R104,105			RK73GB2A103J	CHIP R 10K J 1/10W		R224			RK73FB2B103J	CHIP R 10K J 1/8W	
R106			RK73GB2A223J	CHIP R 22K J 1/10W		R225,226			RK73GB2A361J	CHIP R 360 J 1/10W	
R107			RK73GB2A221J	CHIP R 220 J 1/10W		R227			RK73FB2B203J	CHIP R 20K J 1/8W	
R108			RK73GB2A182J	CHIP R 1.8K J 1/10W		R228			RK73FB2B103J	CHIP R 10K J 1/8W	
R110			RK73GB2A103J	CHIP R 10K J 1/10W		R229			RK73GB2A104J	CHIP R 100K J 1/10W	
R111			RK73GB2A390J	CHIP R 39 J 1/10W		R230			RK73EB2E820J	CHIP R 82 J 1/4W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W		R231,232			RK73GB2A223J	CHIP R 22K J 1/10W	
R114-117			RK73GB2A471J	CHIP R 470 J 1/10W		R233			RK73GB2A104J	CHIP R 100K J 1/10W	
R118			RK73GB2A102J	CHIP R 1.0K J 1/10W		R234			RK73GB2A361J	CHIP R 360 J 1/10W	
R120			RK73GB2A223J	CHIP R 22K J 1/10W		R235			RK73EB2E820J	CHIP R 82 J 1/4W	
R121			RK73GB2A431J	CHIP R 430 J 1/10W		R236			RK73FB2B203J	CHIP R 20K J 1/8W	
R122			RK73GB2A100J	CHIP R 10 J 1/10W		R237			RK73FB2B103J	CHIP R 10K J 1/8W	
R150			RK73EB2E2R2J	CHIP R 2.2 J 1/4W		R238			RK73EB2E750J	CHIP R 75 J 1/4W	
R151,152			RK73GB2A102J	CHIP R 1.0K J 1/10W		R239			RK73EB2E101J	CHIP R 100 J 1/4W	
R153-158			RK73GB2A101J	CHIP R 100 J 1/10W		R240			RK73GB2A361J	CHIP R 360 J 1/10W	
R159			RK73GB2A391J	CHIP R 390 J 1/10W		R241,242			RK73GB2A223J	CHIP R 22K J 1/10W	
R160			RK73GB2A242J	CHIP R 2.4K J 1/10W		R243			RK73EB2E101J	CHIP R 100 J 1/4W	
R162			RK73GH2A512D	CHIP R 5.1K D 1/10W		R244			RK73GB2A361J	CHIP R 360 J 1/10W	
R163			RK73GH2A472D	CHIP R 4.7K D 1/10W		R245			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R164			RK73GB2A562J	CHIP R 5.6K J 1/10W		R246			RK73EB2E100J	CHIP R 10 J 1/4W	
R165			RK73GB2A103J	CHIP R 10K J 1/10W		R247			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R166			RK73GB2A101J	CHIP R 100 J 1/10W		R248			RK73GB2A471J	CHIP R 470 J 1/10W	
R167,168			RK73GB2A102J	CHIP R 1.0K J 1/10W		R249			RK73EB2E100J	CHIP R 10 J 1/4W	
R169			RK73FB2B152J	CHIP R 1.5K J 1/8W		R250			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R170			RK73GB2A104J	CHIP R 100K J 1/10W		R251			RK73EB2E100J	CHIP R 10 J 1/4W	
R171			RK73FB2B4R7J	CHIP R 4.7 J 1/8W		R252			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R172			RK73GB2A332J	CHIP R 3.3K J 1/10W		R253			RK73EB2E101J	CHIP R 100 J 1/4W	
R173,174			RK73GB2A101J	CHIP R 100 J 1/10W		R254			RK73EB2E100J	CHIP R 10 J 1/4W	
R176			RK73GB2A100J	CHIP R 10 J 1/10W		R255,256			RK73GB2A750J	CHIP R 75 J 1/10W	
R177-180			RK73GB2A101J	CHIP R 100 J 1/10W		R257			RK73GB2A222J	CHIP R 2.2K J 1/10W	KE1E2
R181,182			RK73GB2A103J	CHIP R 10K J 1/10W		R257			RK73GB2A222J	CHIP R 2.2K J 1/10W	M1
R184			RK73FB2B1R0J	CHIP R 1.0 J 1/8W		R260			RK73GB2A222J	CHIP R 2.2K J 1/10W	KE1E2
R200			RK73FB2B203J	CHIP R 20K J 1/8W		R260			RK73GB2A222J	CHIP R 2.2K J 1/10W	M1
R201			RK73FB2B103J	CHIP R 10K J 1/8W		R261			RK73EB2E101J	CHIP R 100 J 1/4W	
R202			RK73EB2E820J	CHIP R 82 J 1/4W		R262			RK73GB2A222J	CHIP R 2.2K J 1/10W	KE1E2
R203			RK73GB2A361J	CHIP R 360 J 1/10W		R262			RK73GB2A222J	CHIP R 2.2K J 1/10W	M1
R204			RK73GB2A104J	CHIP R 100K J 1/10W		R263			RK73GB2A223J	CHIP R 22K J 1/10W	
R205			RK73GB2A223J	CHIP R 22K J 1/10W		R265			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R206			RK73EB2E820J	CHIP R 82 J 1/4W		R266			RK73EB2E101J	CHIP R 100 J 1/4W	
R207			RK73FB2B203J	CHIP R 20K J 1/8W		R267			RK73GB2A750J	CHIP R 75 J 1/10W	
R208			RK73FB2B103J	CHIP R 10K J 1/8W		R300			RK73GB2A104J	CHIP R 100K J 1/10W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R301,302			RK73GB2A101J	CHIP R 100 J 1/10W	
R303			RK73GB2A104J	CHIP R 100K J 1/10W	
R304			RK73GB2A101J	CHIP R 100 J 1/10W	
R305			RK73GB2A104J	CHIP R 100K J 1/10W	
R306			RK73GB2A103J	CHIP R 10K J 1/10W	
R307			RK73GB2A101J	CHIP R 100 J 1/10W	
R308			RK73GB2A104J	CHIP R 100K J 1/10W	
R309			RK73GB2A101J	CHIP R 100 J 1/10W	
R311			RK73GB2A101J	CHIP R 100 J 1/10W	
R312,313			RK73GB2A104J	CHIP R 100K J 1/10W	
R314			RK73GB2A103J	CHIP R 10K J 1/10W	
R315			RK73GB2A101J	CHIP R 100 J 1/10W	
R316			RK73GB2A103J	CHIP R 10K J 1/10W	
R317			RK73GB2A101J	CHIP R 100 J 1/10W	
R319			RK73GB2A473J	CHIP R 47K J 1/10W	
R320,321			RK73GB2A104J	CHIP R 100K J 1/10W	
R322			RK73GB2A101J	CHIP R 100 J 1/10W	
R323			RK73GB2A104J	CHIP R 100K J 1/10W	
R324			RK73GB2A101J	CHIP R 100 J 1/10W	
R325			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R326			RK73GB2A101J	CHIP R 100 J 1/10W	
R327			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R328			RK73GB2A104J	CHIP R 100K J 1/10W	
R329			RK73GB2A101J	CHIP R 100 J 1/10W	
R330			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R331			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R333			RK73GB2A101J	CHIP R 100 J 1/10W	
R334			RK73GB2A104J	CHIP R 100K J 1/10W	
R335			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R337			RK73GB2A101J	CHIP R 100 J 1/10W	
R338			RK73GB2A103J	CHIP R 10K J 1/10W	
R341			RK73GB2A103J	CHIP R 10K J 1/10W	
R343-345			RK73GB2A101J	CHIP R 100 J 1/10W	
R346			RK73GB2A104J	CHIP R 100K J 1/10W	
R347			RK73GB2A101J	CHIP R 100 J 1/10W	
R348			RK73GB2A104J	CHIP R 100K J 1/10W	
R349			RK73GB2A101J	CHIP R 100 J 1/10W	
R350			RK73GB2A104J	CHIP R 100K J 1/10W	
R351			RK73GB2A101J	CHIP R 100 J 1/10W	
R352			RK73GB2A104J	CHIP R 100K J 1/10W	
R353			RK73GB2A101J	CHIP R 100 J 1/10W	
R354			RK73GB2A104J	CHIP R 100K J 1/10W	
R355			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R356			RK73GB2A104J	CHIP R 100K J 1/10W	
R357			RK73GB2A223J	CHIP R 22K J 1/10W	
R358-360			RK73GB2A104J	CHIP R 100K J 1/10W	
R362			RK73GB2A223J	CHIP R 22K J 1/10W	
R363			RK73GB2A103J	CHIP R 10K J 1/10W	
R365			RK73GB2A103J	CHIP R 10K J 1/10W	X1C
R366,367			RK73GB2A103J	CHIP R 10K J 1/10W	KE1E2
R366,367			RK73GB2A103J	CHIP R 10K J 1/10W	M1
R367			RK73GB2A103J	CHIP R 10K J 1/10W	X1C
R369			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2M1
R370			RK73GB2A103J	CHIP R 10K J 1/10W	X1C
R370,371			RK73GB2A103J	CHIP R 10K J 1/10W	K

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R371			RK73GB2A103J	CHIP R 10K J 1/10W	M1
R372			RK73GB2A103J	CHIP R 10K J 1/10W	C
R372			RK73GB2A103J	CHIP R 10K J 1/10W	E1E2X1
R400			RK73GB2A103J	CHIP R 10K J 1/10W	
R401			RK73GB2A334J	CHIP R 330K J 1/10W	
R402			RK73GB2A561J	CHIP R 560 J 1/10W	
R403			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R404			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R412-415			RK73GB2A103J	CHIP R 10K J 1/10W	
R500,501			RK73EB2E100J	CHIP R 10 J 1/4W	
R502			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R503			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R504			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R505			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R506			RK73EB2E101J	CHIP R 100 J 1/4W	
R507-510			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R511,512			RK73EB2E101J	CHIP R 100 J 1/4W	
R513,514			RK73GB2A103J	CHIP R 10K J 1/10W	
R515			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R517			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R518			RK73GB2A101J	CHIP R 100 J 1/10W	
R519-521			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R522			RK73GB2A101J	CHIP R 100 J 1/10W	
R527			RK73GB2A750J	CHIP R 75 J 1/10W	
R528			RK73GB2A681J	CHIP R 680 J 1/10W	
R529			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R530			RK73GB2A150J	CHIP R 15 J 1/10W	
R531			RK73EB2E100J	CHIP R 10 J 1/4W	
R532			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R533			RK73EB2E100J	CHIP R 10 J 1/4W	
R534,535			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R536-538			RK73EB2E101J	CHIP R 100 J 1/4W	
R539,540			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R541-548			RK73GB2A750J	CHIP R 75 J 1/10W	E1E2
R544-548			RK73GB2A750J	CHIP R 75 J 1/10W	KM1X1C
R549-551			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R552			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R553,554			RK73EB2E100J	CHIP R 10 J 1/4W	
R565			RK73EB2E101J	CHIP R 100 J 1/4W	KM1X1C
R565-572			RK73EB2E101J	CHIP R 100 J 1/4W	E1E2
R569-572			RK73EB2E101J	CHIP R 100 J 1/4W	KM1X1C
R578			RK73EB2E101J	CHIP R 100 J 1/4W	
R579			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R580			RK73EB2E101J	CHIP R 100 J 1/4W	
R581			RK73EB2E223J	CHIP R 22K J 1/4W	
R582			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R594			RK73GB2A104J	CHIP R 100K J 1/10W	
R600			RK73GB2A100J	CHIP R 10 J 1/10W	
R800			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R801			RK73GB2A104J	CHIP R 100K J 1/10W	
R802,803			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R804-811			RK73GB2A103J	CHIP R 10K J 1/10W	
R850-856			RK73EB2E101J	CHIP R 100 J 1/4W	
W1			R92-1252-05	CHIP R 0 OHM J 1/16W	E1E2
W50			RK73EB2E000J	CHIP R 0.0 J 1/4W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.



# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
W100			R92-1252-05	CHIP R 0 OHM J 1/16W		IC100			E-TDA7560A	ANALOGUE IC	
W300			R92-1252-05	CHIP R 0 OHM J 1/16W		IC150			NJM4565V-ZB	ANALOGUE IC	
D1-8			M1F60-5063	DIODE		IC151			E-TDA7415	ANALOGUE IC	
D9			RM10ZLFNF	DIODE		IC200-202			NJM4565V-ZB	ANALOGUE IC	
D10			1SR154-400	DIODE		IC203,204			BA3121F	ANALOGUE IC	
D10,11			1SR154-400	DIODE	E1E2	IC251			E-TDA7479AD	ANALOGUE IC	KE1E2
D12			DAP202U	DIODE	KM1X1C	IC251			E-TDA7479AD	ANALOGUE IC	M1
D13,14			1SR154-400	DIODE		IC300			S-80842CNNB-G	MOS-IC	
D15			UDZS6.8B	ZENER DIODE		IC301			SN74HC02APWR	MOS-IC	
D16			UDZS5.6B	ZENER DIODE		IC303			703068YGJ128A	MICROCONTROLLER IC	
D17			UDZS4.7B	ZENER DIODE		IC400-402			MM1503-E	ANALOGUE IC	
D18			DAP202U	DIODE		IC403			MM1108XFFE-E	ANALOGUE IC	
D19			UDZS6.8B	ZENER DIODE		IC404			BA7653AFV	ANALOGUE IC	
D52			UDZS11B	ZENER DIODE		IC405			BA3121F	ANALOGUE IC	
D54,55			UDZS5.6B	ZENER DIODE		IC406			BA7652AF	ANALOGUE IC	
D100,101			DAP202U	DIODE		IC407,408			MM1228XFB-E	ANALOGUE IC	
D150			UDZS6.8B	ZENER DIODE		IC413,414			TC4052BFT	MOS-IC	
D151			DA227	DIODE		IC415			MM1503-E	ANALOGUE IC	
D152			UDZS16B	ZENER DIODE		IC416			BA7652AF	ANALOGUE IC	
D155,156			IMN10	DIODE		IC500			BA3121F	ANALOGUE IC	
D157			DAP202U	DIODE		IC501			TC7SET04FU-F	MOS-IC	
D200			DAP202U	DIODE		IC502			TC7SH08FU-F	MOS-IC	
D201			STZ6.2N	ZENER DIODE		Q6,7			DTC114YUA	DIGITAL TRANSISTOR	KM1X1C
D203,204			DAP202U	DIODE		Q7			DTC114YUA	DIGITAL TRANSISTOR	E1E2
D205			UDZS4.7B	ZENER DIODE		Q8			DTA114EUA	DIGITAL TRANSISTOR	
D206			STZ6.2N	ZENER DIODE		Q9,10			2SB1188(Q,R)	TRANSISTOR	KM1X1C
D207-209			STZ6.8N	ZENER DIODE		Q10			2SB1188(Q,R)	TRANSISTOR	E1E2
D210			STZ6.2N	ZENER DIODE		Q11			2SA1576A	TRANSISTOR	
D211			STZ6.8N	ZENER DIODE		Q12			2SC4081	TRANSISTOR	
D212-214			DAP202U	DIODE		Q13			DTA123JK	DIGITAL TRANSISTOR	
D216			DAP202U	DIODE		Q14			2SA1576A	TRANSISTOR	
D218			STZ6.8N	ZENER DIODE		Q15			2SC4081	TRANSISTOR	
D252			IMSA-6801-E	SURGE ABSORBER		Q50			2SB1443	TRANSISTOR	
D300			DA227	DIODE		Q51			2SC4081	TRANSISTOR	
D413			UDZS4.7B	ZENER DIODE		Q52			UMC2N	TRANSISTOR	
D414			DAP202U	DIODE		Q54			2SC4081	TRANSISTOR	
D500			STZ6.8N	ZENER DIODE		Q55			UMC2N	TRANSISTOR	
D501			STZ6.2N	ZENER DIODE		Q58			2SB1184	TRANSISTOR	
D502			UDZS4.7B	ZENER DIODE		Q59			2SB1565	TRANSISTOR	
D503			DAP202U	DIODE		Q61			UMC2N	TRANSISTOR	
D504-507			STZ6.2N	ZENER DIODE		Q62			DTC114EUA	DIGITAL TRANSISTOR	
D508			DAN202U	DIODE		Q63			2SA1576A	TRANSISTOR	
D521			STZ6.8N	ZENER DIODE		Q64			2SB1184	TRANSISTOR	
D522-525			STZ6.2N	ZENER DIODE	KM1X1C	Q65			2SA1576A	TRANSISTOR	
D522-535			STZ6.2N	ZENER DIODE	E1E2	Q66			2SC4081	TRANSISTOR	
D529-535			STZ6.2N	ZENER DIODE	KM1X1C	Q67			2SA1576A	TRANSISTOR	
D536,537			DA204U	DIODE		Q68			2SC4617	TRANSISTOR	
D538			STZ6.2N	ZENER DIODE		Q69			2SA1774	TRANSISTOR	
D539			STZ6.8N	ZENER DIODE		Q70			2SC4617	TRANSISTOR	
D550			STZ6.2N	ZENER DIODE		Q150			UMC2N	TRANSISTOR	
D800			STZ6.2N	ZENER DIODE		Q151			2SA1774	TRANSISTOR	
IC50			M5237ML-CF0J	ANALOGUE IC		Q152			2SC2873-F	TRANSISTOR	
IC52			ICL7660SIBAZ	ANALOGUE IC		Q200-202			DTC323TU	DIGITAL TRANSISTOR	
IC54			M5237ML-CF0J	ANALOGUE IC		Q203			2SA1576A	TRANSISTOR	
						Q204-207			DTC323TU	DIGITAL TRANSISTOR	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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C : DDX8067 (China) M1 : DDX8037 (Other Areas)

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# PARTS LIST

## ELECTRIC UNIT (X34-382/383x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
Q208			DTA144EUA	DIGITAL TRANSISTOR	
Q209			DTC323TU	DIGITAL TRANSISTOR	
Q250			DTC124EUA	DIGITAL TRANSISTOR	
Q252			2SB1689	TRANSISTOR	
Q403-406			DTC124EUA	DIGITAL TRANSISTOR	
Q500			DTA124EUA	DIGITAL TRANSISTOR	
Q800			DTC124EUA	DIGITAL TRANSISTOR	
TH100			PRF18BE471QS2	POSITIVE RESISTOR	
A250		*	X86-3930-13	FRONT-END UNIT	KX1
A250		*	X86-3932-72	FRONT-END UNIT	E1E2M1
A250		*	X86-3942-12	FRONT-END UNIT	C
<b>VIDEO UNIT (X35-458/459x-10)</b>					
D508			B30-1566-05	LED (1608, RED)	
D666			B30-1564-05	LED (1608, BLUE)	
D667-677			B30-1605-05	LED (2COLOR PG/RED)	
D680			B30-1605-05	LED (2COLOR PG/RED)	
D701			B30-1547-05	LED	
D702			B30-1566-05	LED (1608, RED)	
D703			B30-1547-05	LED	
D704			B30-1566-05	LED (1608, RED)	
C1			C92-1857-05	ELECTRO 33UF 10WV	
C3			C93-1283-05	CHIP C 1.0UF K	
C4			C92-1857-05	ELECTRO 33UF 10WV	
C5			C93-1363-05	CHIP C 10PF 3KWV	
C6			C93-1361-05	CHIP C 0.012UF 16WV	
C7			CK73GB1H473K	CHIP C 0.047UF K	
C8			C93-1269-05	CHIP C 220PF J	
C9			CK73GB0J225K	CHIP C 2.2UF K	
C10			CK73GB1H103K	CHIP C 0.010UF K	
C11			CK73GB0J225K	CHIP C 2.2UF K	
C12			CK73GB1H103K	CHIP C 0.010UF K	
C13			CK73GB1A474K	CHIP C 0.47UF K	
C14			CK73GB1H103K	CHIP C 0.010UF K	
C15			CK73GB1H473K	CHIP C 0.047UF K	
C16			CK73GB1E183K	CHIP C 0.018UF K	
C17			CK73GB1H103K	CHIP C 0.010UF K	
C18			C93-1283-05	CHIP C 1.0UF K	
C21			CK73GB0J225K	CHIP C 2.2UF K	
C22			CK73GB1H152K	CHIP C 1500PF K	
C24			CK73GB1H103K	CHIP C 0.010UF K	
C25		*	C93-1285-05	CHIP C 0.0022UF 50WV	
C26			CK73GB1H103K	CHIP C 0.010UF K	
C27			C93-1283-05	CHIP C 1.0UF K	
C102			CK73EB1C106K	CHIP C 10UF K	
C103			CK73GB1H103K	CHIP C 0.010UF K	
C105			CE32AU1C220M	CHIP EL 22UF 16WV	
C106			CK73GB1H103K	CHIP C 0.010UF K	
C108			CE32AU1C220M	CHIP EL 22UF 16WV	
C109			CK73FB1C105K	CHIP C 1.0UF K	
C110			CK73GB1H103K	CHIP C 0.010UF K	
C112			CK73FB1E154K	CHIP C 0.15UF K	
C113			CK73EB1E225K	CHIP C 2.2UF K	
C114			CK73GB1C224K	CHIP C 0.22UF K	
C115			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C116			C92-1685-05	ELECTRO 47UF 6.3WV	
C118			CK73GB1H103K	CHIP C 0.010UF K	
C119			CC73GCH1H151J	CHIP C 150PF J	
C211			CK73EB1A475K	CHIP C 4.7UF K	
C230			CK73GB1H103K	CHIP C 0.010UF K	
C231,232			CK73DF1E106Z	CHIP C 10UF Z	
C233			CK73GB1H103K	CHIP C 0.010UF K	
C234			CC73GCH1H560J	CHIP C 56PF J	
C300			CK73GB1H103K	CHIP C 0.010UF K	
C301,302			CK73DF1E106Z	CHIP C 10UF Z	
C303			CK73GB1H103K	CHIP C 0.010UF K	
C304			CK73GB1H104K	CHIP C 0.10UF K	
C305			CK73GB1H103K	CHIP C 0.010UF K	
C306			CC73GCH1H101J	CHIP C 100PF J	
C307			CK73EB1C106K	CHIP C 10UF K	
C308			CK73GB1H103K	CHIP C 0.010UF K	
C309			CC73GCH1H100D	CHIP C 10PF D	
C310			CK73GB1H561K	CHIP C 560PF K	
C311-314			CK73GB1H103K	CHIP C 0.010UF K	
C315,316			CK73GB1H104K	CHIP C 0.10UF K	
C317			CK73GB1H103K	CHIP C 0.010UF K	
C318,319			CK73GB1H104K	CHIP C 0.10UF K	
C320			CC73GCH1H560J	CHIP C 56PF J	
C321			CK73GB1H104K	CHIP C 0.10UF K	
C322			CC73GCH1E102J	CHIP C 1000PF J	
C323			CC73GCH1H101J	CHIP C 100PF J	
C324,325			CK73GB1H103K	CHIP C 0.010UF K	
C326			CC73GCH1H681J	CHIP C 680PF J	
C327,328			CK73GB1H104K	CHIP C 0.10UF K	
C330			CK73EB1A106K	CHIP C 10UF K	
C331,332			CC73GCH1H390J	CHIP C 39PF J	
C333			CK73GB1H104K	CHIP C 0.10UF K	
C334			CK73GB1H103K	CHIP C 0.010UF K	
C335,336			CK73GB1H104K	CHIP C 0.10UF K	
C341			CC73GCH1H100D	CHIP C 10PF D	
C425			CK73FB1C105K	CHIP C 1.0UF K	
C426			CK73EB1E105K	CHIP C 1.0UF K	
C427			CK73FB1A225K	CHIP C 2.2UF K	
C428			CK73EB1C106K	CHIP C 10UF K	
C502,503			CK73GB1H103K	CHIP C 0.010UF K	
C504			CK73EB1A106K	CHIP C 10UF K	
C505			CK73GB1H271K	CHIP C 270PF K	
C506			CC73GCH1H101J	CHIP C 100PF J	
C601			CK73GB1H221K	CHIP C 220PF K	
C602			CK73GB1H103K	CHIP C 0.010UF K	
C603			CK73GB0J225K	CHIP C 2.2UF K	
C604			CC73GCH1H101J	CHIP C 100PF J	
C605			CK73EB1A106K	CHIP C 10UF K	
CN1			E41-2483-05	PIN ASSY	
CN302		*	E41-2525-05	FLAT CABLE CONNECTOR	
CN303			E41-2065-05	FLAT CABLE CONNECTOR	
CN501			E41-2088-05	FLAT CABLE CONNECTOR	
CN602			E41-0451-25	FLAT CABLE CONNECTOR	
CN604			E41-2208-05	FLAT CABLE CONNECTOR	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## VIDEO UNIT (X35-458/459x-10)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
CN701		*	E41-2542-05	FLAT CABLE CONNECTOR		R310,311			RK73GB2A103J	CHIP R 10K J 1/10W	
F1			F53-0297-05	FUSE (UL, CSA)		R312			RK73GB2A101J	CHIP R 100 J 1/10W	
F107			F53-0314-05	FUSE (UL, CSA)		R316			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L1			L19-0783-05	TRANSFORMER FOR CONVERTER		R318			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L2			L33-1933-05	CHOKO COIL		R321			RN73GH1J472D	CHIP R 4.7K D 1/16W	
L101,102			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)		R324,325			RN73GH1J472D	CHIP R 4.7K D 1/16W	
L103			L41-4792-13	SMALL FIXED INDUCTOR (4.7UH)		R326			RK73GH2A473D	CHIP R 47K D 1/10W	
L104-106			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R327			RK73GH2A683D	CHIP R 68K D 1/10W	
L306			L41-5695-33	SMALL FIXED INDUCTOR (5.6U)		R328			RK73GH2A153D	CHIP R 15K D 1/10W	
L307			L41-8281-15	SMALL FIXED INDUCTOR (0.82U)		R329			RK73GH2A101D	CHIP R 100 D 1/10W	
L501			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R330			RK73GH2A182D	CHIP R 1.8K D 1/10W	
L601			L41-1005-33	SMALL FIXED INDUCTOR (10U)		R331			RK73GH2A331D	CHIP R 330 D 1/10W	
CP301,302			RK74GB1J102J	CHIP-COM 1.0K J 1/16W		R332			RK73GH2A332D	CHIP R 3.3K D 1/10W	
CP303			RK74GB1J101J	CHIP-COM 100 J 1/16W		R337,338			RK73GB2A101J	CHIP R 100 J 1/10W	
R1			RK73GB2A512J	CHIP R 5.1K J 1/10W		R339			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R2			RK73GB2A515J	CHIP R 5.1M J 1/10W		R340-344			RK73GB2A101J	CHIP R 100 J 1/10W	
R3			RK73GB2A220J	CHIP R 22 J 1/10W		R345			RK73GH2A683D	CHIP R 68K D 1/10W	
R4			RN73GH1J433D	CHIP R 43K D 1/16W		R346			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R5			RK73GB2A153J	CHIP R 15K J 1/10W		R347			RK73GH2A153D	CHIP R 15K D 1/10W	
R6			RN73GH1J513D	CHIP R 51K D 1/16W		R348			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R7			RK73GB2A220J	CHIP R 22 J 1/10W		R349			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R8			RK73GB2A512J	CHIP R 5.1K J 1/10W		R350-352			RK73GB2A101J	CHIP R 100 J 1/10W	
R9			RK73GH2A244D	CHIP R 240K D 1/10W		R353	*		RK73GB2A300J	CHIP R 30 J 1/10W	
R10			RK73GB2A331J	CHIP R 330 J 1/10W		R354			RK73GB2A820J	CHIP R 82 J 1/10W	
R11			RK73GB2A220J	CHIP R 22 J 1/10W		R359,360			RK73GB2A100J	CHIP R 10 J 1/10W	
R12			RK73GB2A105J	CHIP R 1.0M J 1/10W		R361			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R13			RK73GB2A220J	CHIP R 22 J 1/10W		R373,374			RK73GB2A561J	CHIP R 560 J 1/10W	
R14			RN73GH1J4530D	CHIP R 453.0 D 1/16W		R380,381			RK73EB2E101J	CHIP R 100 J 1/4W	
R15			RN73GH1J513D	CHIP R 51K D 1/16W		R385,386			RK73EB2E100J	CHIP R 10 J 1/4W	
R16,17			RK73GB2A220J	CHIP R 22 J 1/10W		R387,388			RK73EB2E101J	CHIP R 100 J 1/4W	
R18			RK73GB2A222J	CHIP R 2.2K J 1/10W		R391			RK73EB2E101J	CHIP R 100 J 1/4W	
R19			RK73GB2A104J	CHIP R 100K J 1/10W		R393-397			RK73EB2E101J	CHIP R 100 J 1/4W	
R101			RK73GH2A104D	CHIP R 100K D 1/10W		R501,502			RK73GB2A333J	CHIP R 33K J 1/10W	
R102			RK73GH2A113D	CHIP R 11K D 1/10W		R503-506			RK73EB2E100J	CHIP R 10 J 1/4W	
R103			RK73GH2A184D	CHIP R 180K D 1/10W		R601			RK73GB2A101J	CHIP R 100 J 1/10W	
R104			RK73GH2A133D	CHIP R 13K D 1/10W		R602			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R105			RK73GB2A473J	CHIP R 47K J 1/10W		R603			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R106			RK73GB2A100J	CHIP R 10 J 1/10W		R604			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R107			RK73GB2A222J	CHIP R 2.2K J 1/10W		R605			RK73GB2A123J	CHIP R 12K J 1/10W	
R218			RK73GB2A102J	CHIP R 1.0K J 1/10W		R606			RK73GB2A101J	CHIP R 100 J 1/10W	
R219			RK73GB2A473J	CHIP R 47K J 1/10W		R607			RK73GB2A242J	CHIP R 2.4K J 1/10W	
R234			RN73GH1J472D	CHIP R 4.7K D 1/16W		R608			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R235			RN73GH1J912D	CHIP R 9.1K D 1/16W		R609			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R236			RN73GH1J222D	CHIP R 2.2K D 1/16W		R610			RK73GB2A123J	CHIP R 12K J 1/10W	
R240			RK73GB2A470J	CHIP R 47 J 1/10W		R611			RK73GB2A363J	CHIP R 36K J 1/10W	
R242			RK73GB2A470J	CHIP R 47 J 1/10W		R612			RK73GB2A361J	CHIP R 360 J 1/10W	
R300			RK73GB2A103J	CHIP R 10K J 1/10W		R613			RK73GB2A101J	CHIP R 100 J 1/10W	
R301			RK73GB2A101J	CHIP R 100 J 1/10W		R614			RK73GB2A361J	CHIP R 360 J 1/10W	
R302			RK73GB2A221J	CHIP R 220 J 1/10W		R615			RK73GB2A101J	CHIP R 100 J 1/10W	
R303-306			RK73GB2A102J	CHIP R 1.0K J 1/10W		R616			RK73GB2A361J	CHIP R 360 J 1/10W	
R307			RK73GB2A101J	CHIP R 100 J 1/10W		R617			RK73GB2A101J	CHIP R 100 J 1/10W	
R308			RK73GB2A621J	CHIP R 620 J 1/10W		R618			RK73GB2A361J	CHIP R 360 J 1/10W	
R309			RK73GB2A102J	CHIP R 1.0K J 1/10W		R619,620			RK73GB2A101J	CHIP R 100 J 1/10W	
						R621			RK73GB2A102J	CHIP R 1.0K J 1/10W	
						R623			RK73GB2A511J	CHIP R 510 J 1/10W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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# PARTS LIST

## VIDEO UNIT (X35-458/459x-10)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R624			RK73GB2A104J	CHIP R 100K J 1/10W	
R625			RK73GB2A101J	CHIP R 100 J 1/10W	
R702			RK73FB2B561J	CHIP R 560 J 1/8W	
R703			RK73FB2B331J	CHIP R 330 J 1/8W	
VR203			R32-0328-05	SEMI FIXED VARIABLE RESISTOR	
VR301			R32-0328-05	SEMI FIXED VARIABLE RESISTOR	
W3			R92-1252-05	CHIP R 0 OHM J 1/16W	
W216,217			RK73FB2B000J	CHIP R 0.0 J 1/8W	
W253			RK73FB2B000J	CHIP R 0.0 J 1/8W	
W254,255			R92-1252-05	CHIP R 0 OHM J 1/16W	
W300,301			R92-1252-05	CHIP R 0 OHM J 1/16W	
W309,310			R92-1252-05	CHIP R 0 OHM J 1/16W	
W320			R92-1252-05	CHIP R 0 OHM J 1/16W	
W323			R92-1252-05	CHIP R 0 OHM J 1/16W	
W333-335			R92-1252-05	CHIP R 0 OHM J 1/16W	
W354-357			R92-1252-05	CHIP R 0 OHM J 1/16W	
W366			R92-1252-05	CHIP R 0 OHM J 1/16W	
W371			R92-1252-05	CHIP R 0 OHM J 1/16W	
W385			R92-1252-05	CHIP R 0 OHM J 1/16W	
W392			RK73EB2E000J	CHIP R 0.0 J 1/4W	
W398			RK73EB2E000J	CHIP R 0.0 J 1/4W	
S601			S70-0901-05	TACT SWITCH	
S602,603			S70-0919-05	TACT SWITCH	
S604,605			S70-0901-05	TACT SWITCH	
S606-608			S70-0919-05	TACT SWITCH	
S609			S70-0901-05	TACT SWITCH	
S614			S70-0919-05	TACT SWITCH	
S615			S70-0910-05	TACT SWITCH	
S616			S70-0919-05	TACT SWITCH	
S617,618			S70-0901-05	TACT SWITCH	
D1,2			UDZS4.7B	ZENER DIODE	
D3			1SS355	DIODE	
D4,5			DA204U	DIODE	
D6			MA2S784-F	DIODE	
D7			UDZS5.6B	ZENER DIODE	
D8			AVRM1608120M6A	VARISTOR	
D101			EP05Q04	DIODE	
D102			EP05Q06	DIODE	
D103,104			EP05Q04	DIODE	
D301			UDZS5.1B	ZENER DIODE	
D302,303			DA204U	DIODE	
D304			UDZS5.1B	ZENER DIODE	
D309			1SV231-F	VARIABLE CAPACITANCE DIODE	
D310			AVRM1608180M6A	VARISTOR	
D501-504			UDZS6.2B	ZENER DIODE	
D601-603			AVRM1608180M6A	VARISTOR	
D612			AVRM1608180M6A	VARISTOR	
D615,616			AVRM1608180M6A	VARISTOR	
D622,623			AVRM1608180M6A	VARISTOR	
D627,628			AVRM1608180M6A	VARISTOR	
D636-638			AVRM1608180M6A	VARISTOR	
D639			DA204U	DIODE	
D690			DAN202U	DIODE	
IC1			OZ964ISN-C	ANALOGUE IC	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC101			LT1947-PBF	ANALOGUE IC	
IC203			TA75W558FU-F	ANALOGUE IC	
IC300			TC7WH126FU-F	MOS-IC	
IC301			TC200G02G0104	MOS-IC	
IC302			TC7SH08FU-F	MOS-IC	
IC303			NJM2107F-ZB	ANALOGUE IC	
IC601			RS-181	ANALOGUE IC	
Q1			2SC4081	TRANSISTOR	
Q2,3			SI5513DC-E3	DUAL FET	
Q5			2SC4081	TRANSISTOR	
Q101			DTC124EUA	DIGITAL TRANSISTOR	
Q102			DTA124EUA	DIGITAL TRANSISTOR	
Q202			2SC4097	TRANSISTOR	
Q203			2SA1577	TRANSISTOR	
Q300			DTC124EUA	DIGITAL TRANSISTOR	
Q301			2SC4097	TRANSISTOR	
Q302,303			DTA123JUA	DIGITAL TRANSISTOR	
Q304,305			DTC123JUA	DIGITAL TRANSISTOR	
Q306			DTC124EUA	DIGITAL TRANSISTOR	
Q307,308			2SC4081	TRANSISTOR	
Q601			DTC124EUA	DIGITAL TRANSISTOR	
Q602			DTA124EUA	DIGITAL TRANSISTOR	
Q604			DTC124EUA	DIGITAL TRANSISTOR	
Q605			DTA143EUA	DIGITAL TRANSISTOR	
Q701			DTC124EUA	DIGITAL TRANSISTOR	
<b>DVD UNIT (X37-1070-00)</b>					
C1-3			CK73HB1A104K	CHIP C 0.10UF	K
C4,5			CK73HB0J105K	CHIP C 1.0UF	K
C6			CK73GB0J475K	CHIP C 4.7UF	K
C7			CK73FB0J106M	CHIP C 10UF	M
C8			CK73FB0J226M	CHIP C 22UF	M
C10			CK73HB1A104K	CHIP C 0.10UF	K
C14			CK73FB0J106M	CHIP C 10UF	M
C15			CK73HB0J105K	CHIP C 1.0UF	K
C16			CK73HB1A104K	CHIP C 0.10UF	K
C17			CK73HB0J105K	CHIP C 1.0UF	K
C18			CK73HB1H332K	CHIP C 3300PF	K
C19			CK73HB1A104K	CHIP C 0.10UF	K
C20			CK73FB0J106M	CHIP C 10UF	M
C21			CK73FB0J226M	CHIP C 22UF	M
C23			CK73HB1A104K	CHIP C 0.10UF	K
C24			CC73GCH1H471J	CHIP C 470PF	J
C25			CK73HB1A104K	CHIP C 0.10UF	K
C26			CK73HB1A473K	CHIP C 0.047UF	K
C27			CK73HB1A104K	CHIP C 0.10UF	K
C28			CK73HB1C103K	CHIP C 0.010UF	K
C29			CK73HB0J105K	CHIP C 1.0UF	K
C31			CK73HB1C223K	CHIP C 0.022UF	K
C32			CC73HCH1H470J	CHIP C 47PF	J
C33			CC73GCH1H102J	CHIP C 1000PF	J
C35			CC73GCH1H102J	CHIP C 1000PF	J
C36			CC73GCH1H681J	CHIP C 680PF	J
C37			CK73HB1E682K	CHIP C 6800PF	K
C38			CK73HB0J105K	CHIP C 1.0UF	K
C39			CC73GCH1H331J	CHIP C 330PF	J

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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△ Indicates safety critical components.

# PARTS LIST

## DVD UNIT (X37-1070-00)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C40			CC73GCH1H102J	CHIP C 1000PF J		CP5-9			RK74HB1J330J	CHIP-COM 33 J 1/16W	
C41			CK73HB0J105K	CHIP C 1.0UF K		CP10			RK74HB1J820J	CHIP-COM 82 J 1/16W	
C42			CC73GCH1H681J	CHIP C 680PF J		R1			RK73GH2A101D	CHIP R 100 D 1/10W	
C43			CK73HB1H222K	CHIP C 2200PF K		R2,3			RK73HB1J104J	CHIP R 100K J 1/16W	
C44			CK73HB1H152K	CHIP C 1500PF K		R8			RK73HB1J104J	CHIP R 100K J 1/16W	
C45			CK73HB1H102K	CHIP C 1000PF K		R10			RK73HB1J103J	CHIP R 10K J 1/16W	
C46			CK73HB1A104K	CHIP C 0.10UF K		R11			RK73HB1J225J	CHIP R 2.2M J 1/16W	
C47-52			CK73HB0J105K	CHIP C 1.0UF K		R12			RK73HB1J103J	CHIP R 10K J 1/16W	
C53			CK73HB1A104K	CHIP C 0.10UF K		R15			RK73GH2A113D	CHIP R 11K D 1/10W	
C54,55			CK73HB0J105K	CHIP C 1.0UF K		R16			RK73GH2A273D	CHIP R 27K D 1/10W	
C56			C93-1228-05	CHIP C 1.0UF M		R18			RK73HB1J125J	CHIP R 1.2M J 1/16W	
C57,58			CK73HB0J105K	CHIP C 1.0UF K		R21			RK73GH2A153D	CHIP R 15K D 1/10W	
C60			CK73HB0J105K	CHIP C 1.0UF K		R22			RK73HB1J105J	CHIP R 1.0M J 1/16W	
C61			C93-1228-05	CHIP C 1.0UF M		R23			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C62,63			CC73HCH1H120J	CHIP C 12PF J		R24			RK73GH2A123D	CHIP R 12K D 1/10W	
C64			CK73HB1C103K	CHIP C 0.010UF K		R25-27			RK73HB1J103J	CHIP R 10K J 1/16W	
C66			CK73FB0J106M	CHIP C 10UF M		R28,29			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C67			C93-1228-05	CHIP C 1.0UF M		R30-32			RK73HB1J132J	CHIP R 1.3K J 1/16W	
C68,69			CK73HB0J105K	CHIP C 1.0UF K		R33			RK73HB1J103J	CHIP R 10K J 1/16W	
C70			CK73HB1A104K	CHIP C 0.10UF K		R34,35			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C71			CK73FB0J226M	CHIP C 22UF M		R36			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C72,73			CK73HB1A104K	CHIP C 0.10UF K		R37			RK73HB1J132J	CHIP R 1.3K J 1/16W	
C76			CK73HB1A104K	CHIP C 0.10UF K		R38,39			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C80			CK73FB0J106M	CHIP C 10UF M		R40,41			RK73HB1J473J	CHIP R 47K J 1/16W	
C81			CK73FB0J226M	CHIP C 22UF M		R45			RK73HB1J105J	CHIP R 1.0M J 1/16W	
C82			CK73HB1A104K	CHIP C 0.10UF K		R46			RK73HB1J152J	CHIP R 1.5K J 1/16W	
C83,84			C92-1908-05	ELECTRO 47UF 6.3WV		R47			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C85,86			CK73HB1H102K	CHIP C 1000PF K		R49			RK73HB1J273J	CHIP R 27K J 1/16W	
C87-89			CK73HB1C103K	CHIP C 0.010UF K		R51			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C90			CK73HB1C223K	CHIP C 0.022UF K		R52			RK73HB1J132J	CHIP R 1.3K J 1/16W	
C91			CK73HB1A333K	CHIP C 0.033UF K		R53			RK73HB1J103J	CHIP R 10K J 1/16W	
C92,93			CK73HB1C103K	CHIP C 0.010UF K		R54			RK73HB1J220J	CHIP R 22 J 1/16W	
C94			CK73GB0J475K	CHIP C 4.7UF K		R55			RK73HB1J202J	CHIP R 2.0K J 1/16W	
C95			CK73FB0J106M	CHIP C 10UF M		R56,57			RK73HB1J221J	CHIP R 220 J 1/16W	
C96			CK73FB0J226M	CHIP C 22UF M		R58			RK73GH2A273D	CHIP R 27K D 1/10W	
C97			CK73HB1C103K	CHIP C 0.010UF K		R59			RK73GB2A150J	CHIP R 15 J 1/10W	
C98			CK73GB0J475K	CHIP C 4.7UF K		R61			RK73GB2A121J	CHIP R 120 J 1/10W	
C99			CK73FB0J226M	CHIP C 22UF M		R62			R92-3475-05	CHIP R 0.27 F 1/2W	
C101			CK73FB0J226M	CHIP C 22UF M		R63			RK73GB2A241J	CHIP R 240 J 1/10W	
C102			C92-1908-05	ELECTRO 47UF 6.3WV		R64			RK73HB1J222J	CHIP R 2.2K J 1/16W	
C104			CC73HCH1H100D	CHIP C 10PF D		R65,66			RK73HB1J103J	CHIP R 10K J 1/16W	
C105-108			CC73HCH1H151J	CHIP C 150PF J		R67			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C109,110			CK73HB1H102K	CHIP C 1000PF K		R68,69			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C120,121			CK73HB1C223K	CHIP C 0.022UF K		R70,71			RK73GH2A123D	CHIP R 12K D 1/10W	
CN1			E41-2194-05	FLAT CABLE CONNECTOR		R72			RK73GH2A333D	CHIP R 33K D 1/10W	
CN2			E41-2156-05	FLAT CABLE CONNECTOR		R73			RK73GH2A203D	CHIP R 20K D 1/10W	
CN3			E41-2158-05	FLAT CABLE CONNECTOR		R74			RK73HB1J123J	CHIP R 12K J 1/16W	
CN4			E41-2197-05	FLAT CABLE CONNECTOR		R75			RK73HB1J152J	CHIP R 1.5K J 1/16W	
CN5			E41-2189-05	FLAT CABLE CONNECTOR		R76			RK73HB1J751J	CHIP R 750 J 1/16W	
CN6			E41-2050-05	SOCKET FOR PIN ASSY		R77			RK73HB1J431J	CHIP R 430 J 1/16W	
L1-5			L92-0365-05	CHIP FERRITE		R78			RK73HB1J472J	CHIP R 4.7K J 1/16W	
X1			L77-2870-05	CRYSTAL RESONATOR (16.897849M)		R79			R92-5031-05	CHIP R 5.1 F 1/8W	
CP2-4			RK74HB1J103J	CHIP-COM 10K J 1/16W		R80			RK73GB2A3R6J	CHIP R 3.6 J 1/10W	
						R81			RK73HB1J134J	CHIP R 130K J 1/16W	
						R82			RK73HB1J103J	CHIP R 10K J 1/16W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## DVD UNIT (X37-1070-00)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R83			RK73HB1J820J	CHIP R 82 J 1/16W	
R84			RK73HB1J103J	CHIP R 10K J 1/16W	
R85			RK73HB1J330J	CHIP R 33 J 1/16W	
R86-88			RK73HB1J820J	CHIP R 82 J 1/16W	
R89,90			RK73HB1J103J	CHIP R 10K J 1/16W	
R91			RK73GH2A101D	CHIP R 100 D 1/10W	
R92			RK73HB1J104J	CHIP R 100K J 1/16W	
R93			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R95			R92-5031-05	CHIP R 5.1 F 1/8W	
R96,97			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R98			R92-5025-05	CHIP R 3.3 F 1/8W	
R100,101			RK73HB1J510J	CHIP R 51 J 1/16W	
R102,103			RK73HB1J202J	CHIP R 2.0K J 1/16W	
R104			RK73HB1J103J	CHIP R 10K J 1/16W	
R105			RK73HB1J132J	CHIP R 1.3K J 1/16W	
R106,107			RK73HB1J103J	CHIP R 10K J 1/16W	
R108			RK73HB1J223J	CHIP R 22K J 1/16W	
R109			RK73HB1J123J	CHIP R 12K J 1/16W	
R110			RK73GH2A132D	CHIP R 1.3K D 1/10W	
R117,118			RK73HB1J103J	CHIP R 10K J 1/16W	
R120,121			RK73HB1J123J	CHIP R 12K J 1/16W	
R122,123			RK73HB1J1R0J	CHIP R 1.0 J 1/16W	
W1-4			R92-1252-05	CHIP R 0 OHM J 1/16W	
S3-5			S68-0895-05	PUSH SWITCH	
D1,2			MAZS0510M	ZENER DIODE	
D3			MA4ZD03	DIODE	
D4-6			DAP202U	DIODE	
D7			MA2S111	DIODE	
IC1			AN22022A-V	ANALOGUE IC	
IC2			AN41204A	ANALOGUE IC	
IC3			M29W400DB55N6E	ROM IC	
IC4			MN103S71F	MOS-IC	
IC5			S-80829CNP	ANALOGUE IC	
IC8			S-80813CNP	ANALOGUE IC	
IC9			NJM2880U115	ANALOGUE IC	
IC10			NJM2886DL2-33	ANALOGUE IC	
IC11			S-24CS04AFT	ROM IC	
Q1,2			2SK3018	FET	
Q7,8			2SB0970	TRANSISTOR	
Q9,10			2SJ0536	FET	
Q11-14			DTA114YUA	DIGITAL TRANSISTOR	
TH1			TH11-3H103FT	THERMISTOR	
<b>DAUGHTER UNIT (X89-274/279x-11)</b>					
C10-12			CC73GCH1H121J	CHIP C 120PF J	
C14-16			CC73GCH1H121J	CHIP C 120PF J	
C18-20			CK73GB1H471K	CHIP C 470PF K	
C22-24			CK73GB1H471K	CHIP C 470PF K	
C26-28			CK73GB1H103K	CHIP C 0.010UF K	
C31-36			CE32CL1C100M	CHIP EL 10UF 16WV	
C37			CK73GB1H104K	CHIP C 0.10UF K	
C39,40			CK73GB1H104K	CHIP C 0.10UF K	
C41			CE32CL1E4R7M	CHIP EL 4.7UF 25WV	
C42			CK73GB1H104K	CHIP C 0.10UF K	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C43,44			CE32CL1C100M	CHIP EL 10UF 16WV	C
C43,44			CE32CL1H2R2M	CHIP EL 2.2UF 50WV	KE1E2
C43,44			CE32CL1H2R2M	CHIP EL 2.2UF 50WV	M1X1
C47			CK73GB1H104K	CHIP C 0.10UF K	
C49-59			CK73GB1H104K	CHIP C 0.10UF K	
C61-65			CK73GB1H104K	CHIP C 0.10UF K	
C66,67			CC73GCH1H120J	CHIP C 12PF J	
C69			CE32CL1C100M	CHIP EL 10UF 16WV	
C70,71			CK73GB1H103K	CHIP C 0.010UF K	
C81,82			CE32CL1C220M	CHIP EL 22UF 16WV	
C84			CE32CL1C100M	CHIP EL 10UF 16WV	
C85,86			CK73GB1H102K	CHIP C 1000PF K	
C87			CE32CL1E4R7M	CHIP EL 4.7UF 25WV	
C88			CE32CL1C100M	CHIP EL 10UF 16WV	
C89			CK73GB1H104K	CHIP C 0.10UF K	
C91			CK73GB1H104K	CHIP C 0.10UF K	
C96,97			CK73GB1H104K	CHIP C 0.10UF K	
C99-101			CK73GB1H104K	CHIP C 0.10UF K	
C102,103			CC73GCH1H120J	CHIP C 12PF J	
C104			CE32CL1C100M	CHIP EL 10UF 16WV	
C105			C92-1685-05	ELECTRO 47UF 6.3WV	
C106			CE32CL1C470M	CHIP EL 47UF 16WV	
C110			CK73GB1H102K	CHIP C 1000PF K	
C111			CK73GB1H104K	CHIP C 0.10UF K	
C301			CK73GB1H333K	CHIP C 0.033UF K	
C302-306			CK73GB1H104K	CHIP C 0.10UF K	
C307,308			C93-1367-05	CHIP C 10UF K	
C309,310			CK73GB1H471K	CHIP C 470PF K	
C311,312			CE32AU1A560M	CHIP EL 56UF 10WV	
C314			CK73GB1H102K	CHIP C 1000PF K	
C317			CK73GB1H104K	CHIP C 0.10UF K	
C318			CK73GB1H102K	CHIP C 1000PF K	
C319			CK73GB1H104K	CHIP C 0.10UF K	
C320			CK73GB1H102K	CHIP C 1000PF K	
C322		*	CE32BJ1H100M	CHIP EL 10UF 50WV	
C323			CK73GB1H103K	CHIP C 0.010UF K	
C324-326			CK73GB1H102K	CHIP C 1000PF K	
C327			CK73EB1E105K	CHIP C 1.0UF K	
CN300			E41-2153-05	FLAT CABLE CONNECTOR	
CN301			E41-2550-05	PIN ASSY	
L3			L92-0332-05	CHIP FERRITE	
L5			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L300,301			L33-1914-05	CHOKE COIL	
L303			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
L304,305		*	L33-2291-05	CHOKE COIL	
X1			L77-2916-05	CRYSTAL RESONATOR (24.576MHZ)	
X2			L77-2908-05	CRYSTAL RESONATOR (12.000MHZ)	
R11-16			RK73GB2A471J	CHIP R 470 J 1/10W	
R18-20			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R23			RK73GB2A133J	CHIP R 13K J 1/10W	
R24			RK73GB2A123J	CHIP R 12K J 1/10W	
R25			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R26			RK73GB2A123J	CHIP R 12K J 1/10W	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# PARTS LIST

## DAUGHTER UNIT (X89-274/279x-11)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R27			RK73GB2A472J	CHIP R 4.7K J 1/10W		R170			RK73GB2A8R2J	CHIP R 8.2 J 1/10W	
R28			RK73GB2A123J	CHIP R 12K J 1/10W		R186,187			RK73GB2A752J	CHIP R 7.5K J 1/10W	
R30			RK73GB2A153J	CHIP R 15K J 1/10W		R300			RK73GB2A103J	CHIP R 10K J 1/10W	
R31,32			RK73GB2A123J	CHIP R 12K J 1/10W		R301			RN73GH1J1402D	CHIP R 14.0K D 1/16W	
R34-36			RK73GB2A133J	CHIP R 13K J 1/10W		R302			RN73GH1J9531D	CHIP R 9.53K D 1/16W	
R38			RK73GB2A103J	CHIP R 10K J 1/10W		R303			RN73GH1J333D	CHIP R 33K D 1/16W	
R39,40			RK73GB2A133J	CHIP R 13K J 1/10W		R304			RK73GB2A103J	CHIP R 10K J 1/10W	
R41			RK73GB2A102J	CHIP R 1.0K J 1/10W		R305,306			RK73GB2A104J	CHIP R 100K J 1/10W	
R42			RK73GB2A473J	CHIP R 47K J 1/10W		R307,308			RK73GB2A101J	CHIP R 100 J 1/10W	
R43			RK73GB2A470J	CHIP R 47 J 1/10W		R309			RN73GH1J102D	CHIP R 1.0K D 1/16W	
R44,45			RK73GB2A431J	CHIP R 430 J 1/10W		R310			RK73GH2A102D	CHIP R 1.0K D 1/10W	
R46,47			RK73GB2A151J	CHIP R 150 J 1/10W		R311			RN73GH1J682D	CHIP R 6.8K D 1/16W	
R48			RK73GB2A750J	CHIP R 75 J 1/10W		R313			RN73GH1J4021D	CHIP R 4.02K D 1/16W	
R49			RK73GB2A431J	CHIP R 430 J 1/10W		R314			RK73GB2A750J	CHIP R 75 J 1/10W	
R51-54			RK73GB2A121J	CHIP R 120 J 1/10W		R318			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R55,56			RK73GB2A431J	CHIP R 430 J 1/10W		R319			RK73GB2A122J	CHIP R 1.2K J 1/10W	
R61			RK73GB2A470J	CHIP R 47 J 1/10W		R320			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R62			RK73GB2A472J	CHIP R 4.7K J 1/10W		R321			RK73GB2A103J	CHIP R 10K J 1/10W	
R63			RK73GB2A470J	CHIP R 47 J 1/10W		R323			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R64			RK73GB2A330J	CHIP R 33 J 1/10W		R324			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R65			RK73GB2A470J	CHIP R 47 J 1/10W		R325			RK73GB2A104J	CHIP R 100K J 1/10W	
R66			RK73GB2A330J	CHIP R 33 J 1/10W		R326			RK73GB2A473J	CHIP R 47K J 1/10W	
R67			RK73GB2A201J	CHIP R 200 J 1/10W		W1			R92-1252-05	CHIP R 0 OHM J 1/16W	
R68			RK73GB2A620J	CHIP R 62 J 1/10W		W10-15			R92-1252-05	CHIP R 0 OHM J 1/16W	
R69			RK73GB2A472J	CHIP R 4.7K J 1/10W		W300-304			R92-1252-05	CHIP R 0 OHM J 1/16W	
R70			RK73GB2A471J	CHIP R 470 J 1/10W		W306,307			R92-1252-05	CHIP R 0 OHM J 1/16W	
R71			RK73GH2A183D	CHIP R 18K D 1/10W		D5			DAP202U	DIODE	
R72			RK73GB2A361J	CHIP R 360 J 1/10W		D6			CRS04	DIODE	
R74			RK73GB2A470J	CHIP R 47 J 1/10W		D11			DA204U	DIODE	
R75-82			RK73GB2A103J	CHIP R 10K J 1/10W		D13			DA204U	DIODE	
R85-90			RK73GB2A8R2J	CHIP R 8.2 J 1/10W		D16			DA204U	DIODE	
R95,96			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		D301,302			EC31QS04AG	DIODE	
R97,98			RK73GB2A471J	CHIP R 470 J 1/10W		D303			UDZS12B	ZENER DIODE	
R99,100			RK73GB2A223J	CHIP R 22K J 1/10W		IC2-4			NJM4580V-ZB	ANALOGUE IC	
R103,104			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		IC5			TA78L05F-F	ANALOGUE IC	
R105			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC6			AK4359VF	MOS-IC	
R109			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		IC7			PCM1802DBR	MOS-IC	
R110			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC9			DSPA56371AF180	MOS-IC	
R116-119			RK73GB2A470J	CHIP R 47 J 1/10W		IC10			AK4112BVFP	MOS-IC	
R120			RK73GB2A472J	CHIP R 4.7K J 1/10W		IC11			NJM4580V-ZB	ANALOGUE IC	
R121-124			RK73GB2A470J	CHIP R 47 J 1/10W		IC12			NJM2123V-ZB	ANALOGUE IC	
R125			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC17			TC7SET08FU-F	MOS-IC	
R126			RK73GB2A105J	CHIP R 1.0M J 1/10W		IC18			TC7SHU04FU-F	MOS-IC	
R127			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		IC19			E-LD1117DTC	ANALOGUE IC	
R128			RK73GB2A222J	CHIP R 2.2K J 1/10W		IC20,21			UPC2933ATAZ	ANALOGUE IC	
R129			RK73GB2A102J	CHIP R 1.0K J 1/10W		IC300	*		FA7703V-H1	ANALOGUE IC	
R131			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		Q13			DTA144EUA	DIGITAL TRANSISTOR	
R139-142			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		Q14,15			DTC643TU	DIGITAL TRANSISTOR	
R143			RK73GB2A472J	CHIP R 4.7K J 1/10W		Q300			DTC144EUA	DIGITAL TRANSISTOR	
R144-147			RK73GB2A104J	CHIP R 100K J 1/10W		Q302			DTC144EUA	DIGITAL TRANSISTOR	
R151			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		Q303			HAT1016R-E	DUAL FET	
R155			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		Q306			DTC143TUA	DIGITAL TRANSISTOR	
R164			RK73GB2A472J	CHIP R 4.7K J 1/10W		Q307			DTC144EUA	DIGITAL TRANSISTOR	
R165			RK73GB2A8R2J	CHIP R 8.2 J 1/10W		Q309			DTA144EUA	DIGITAL TRANSISTOR	
R167			RK73GB2A8R2J	CHIP R 8.2 J 1/10W							

E1 : DDX8027 E2 : DDX8027Y (Europe)  
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C : DDX8067 (China) M1 : DDX8037 (Other Areas)

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# PARTS LIST

## DAUGHTER UNIT (X89-274/279x-11)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q310			DTC144EUA	DIGITAL TRANSISTOR	
Q312		*	2SJ518-E	FET	
Q313			IMX9	TRANSISTOR	
<b>DVD MECHANISM ASSY (X92-5130-00)</b>					
1	1B		A10-5084-31	CHASSIS	
2	2B		A10-5083-21	CHASSIS ASSY	
3	3B		A11-1631-21	SUB CHASSIS	
4	1B		D10-4763-32	ARM	
5	1B		D10-4764-23	ARM	
7	2B		D10-4768-12	SLIDER	
8	2B		D10-4769-03	SLIDER	
9	2A		D10-4771-02	SLIDER	
10	2A		D10-4772-03	SLIDER	
11	2A		D10-4773-13	SLIDER	
12	2B		D10-4774-03	LEVER	
13	2B		D10-4776-23	ARM	
14	3A		D10-4795-23	ARM	
17	3B		D12-0638-13	CAM	
21	2B		D13-2298-04	GEAR	
22	2B		D13-2299-04	GEAR	
23	2B		D13-2303-04	GEAR	
24	2B		D13-2305-04	GEAR	
25	2B		D13-2306-04	GEAR	
26	1A		D13-2308-04	GEAR	
27	1A		D13-2309-04	GEAR	
28	3B		D13-2316-24	GEAR ASSY	
29	2B		D13-2300-14	GEAR	
30	2A		D14-0799-14	ROLLER	
31	2A		D14-1006-04	ROLLER	
33	3A		D21-2429-13	SHAFT	
36	1A		D39-0259-05	DAMPER	
37	2B		E39-0556-05	LEAD WIRE	
VFC1	2A		E39-0602-05	FLAT CABLE	
38	3A		F07-1134-12	COVER	
39	3A		F09-1930-14	SHEET	
40	3A		F09-1960-04	SHEET	
44	3A		F09-1870-04	SHEET	
45	2B		G01-3192-04	EXTENSION SPRING	
46	2A		G01-3194-24	EXTENSION SPRING	
47	1B		G01-3195-14	EXTENSION SPRING	
48	2A		G01-3206-24	TORSION COIL SPRING	
49	2A		G01-3207-24	TORSION COIL SPRING	
50	3A		G01-3209-04	COMPRESSION SPRING	
51	3A		G02-1468-04	FLAT SPRING	
52	2B		G02-1504-33	FLAT SPRING ASSY	
53	1B		G02-1466-24	FLAT SPRING	
54	3B		G02-1488-04	FLAT SPRING	
55	3A		G02-1473-04	FLAT SPRING	
56	1B		G11-3614-04	CUSHION (SR-S-24P)	
57	3B		G11-3622-04	CUSHION (PORON)	
58	2B		J11-0654-13	CLAMPER	
59	1A		J22-0042-12	MOUNTING HARDWARE	
60	1B		J22-0043-12	MOUNTING HARDWARE	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
61	3B		J22-0044-03	MOUNTING HARDWARE	
62	1A		J22-0103-23	MOUNTING HARDWARE ASSY	
63	2B		J22-0177-14	MOUNTING HARDWARE	
64	1A		J90-1066-41	GUIDE	
65	1B		J90-1067-13	GUIDE	
66	1B		J90-1087-32	GUIDE	
67	1B		J90-1088-32	GUIDE	
A	2A		N09-6143-05	MACHINE SCREW	
B	1A		N09-6144-05	MACHINE SCREW	
C	3B		N09-6145-05	MACHINE SCREW	
D	3B		N09-6156-05	MACHINE SCREW (M1.4X1.6)	
E	1B		N09-6230-05	MACHINE SCREW	
F	1A		N19-2192-04	FLAT WASHER	
G	3B		N09-6133-05	MACHINE SCREW (SERRATED)	
H	3A		N09-6134-05	STEPPED SCREW (STEPPED)	
J	3A		N09-6203-05	MACHINE SCREW	
K	3A		N09-6221-15	MACHINE SCREW (P 1.4X3.5)	
L	2A		N09-6308-05	MACHINE SCREW (P 1.4X4.5)	
M	2A		N19-2183-14	FLAT WASHER	
VM1	2A		T42-1321-05	MOTOR ASSY	
VM2	3A		T42-1084-15	MOTOR ASSY	
VM3	2B		X94-2000-00	MOTORASSY (LO)	
71	2A		X94-2010-00	ROLLER ASSY	
VPU1	3B		X94-2020-00	OPTICAL PICKUP ASSY	
<b>PANEL MECHANISM ASSY (D40-2201-15)</b>					
601	2H		A10-5174-28	CHASSIS CALKING ASSY	
602	3G		D10-4801-38	SLIDER ASSY	
603	2G		D13-2324-08	GEAR	
604	2G		D13-2325-08	GEAR	
605	2G		D13-2326-08	GEAR	
607	2G		D14-0789-08	ROLLER	
608	1G		D19-0650-08	CLUTCH ASSY	
609	1H		E39-0671-08	WIRING HARNESS	
610	3G		G02-1480-08	FLAT SPRING	
611	3H		J22-0118-28	SLIDE RAIL	
612	3G		J22-0119-28	SLIDE RAIL	
613	2G		J22-0120-08	SLIDE RAIL	
614	2G		J90-1083-08	GUIDE	
615	2H		J22-0213-08	MOUNTING HARDWARE (MOTOR)	
A	1H		N09-6147-08	SCREW (M1.7X4)	
B	1H		N09-6148-08	SCREW (S2X2.3)	
D	3G		N09-6150-08	SCREW	
E	3G		N09-6151-08	SCREW	
F	1G		N19-2105-14	CUT WASHER (1.6X3.5X10.35)	
PM1	1H		T42-1100-18	MOTOR ASSY	
VR1	1H		T99-0448-05	SPEED DETECTOR	

E1 : DDX8027 E2 : DDX8027Y (Europe)  
K : DDX8017 (North America) X1 : DDX8047 (Australia)  
C : DDX8067 (China) M1 : DDX8037 (Other Areas)

△ Indicates safety critical components.

# SPECIFICATIONS (DDX8017/8047/8067)

## Monitor Section

Picture size .....	6.4 inches (diagonal) wide
W x H .....	143.6 W x 77.1 H (mm)
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 Section

D/A Converter .....	24Bit
Decoder .....	Linear PCM/Dolby Prologic II/Dolby Digital/dts/MP3/WMA
Wow & Flutter .....	Below Measurable Limit
Frequency response	
96k Sampling .....	20~22,000Hz
48k Sampling .....	20~22,000Hz
44.1k Sampling .....	20~20,000Hz
Total harmonic distortion 1kHz .....	0.007%
Signal to Noise ratio .....	95dB (DVD-Video 96k)
Dynamic range .....	95dB (DVD-Video 96k)
DISC Format .....	DVD-Video/VIDEO-CD/CD-DA
Sampling frequency .....	44.1kHz/48kHz, 96kHz
Quantifying bit number .....	16/20/24bit

## DSP Section

4 BAND Parametric equalizer	
BAND 1 frequency .....	60/80/100/120/160/200
BAND 2 frequency .....	250/315/400/500/630/800/1k
BAND 3 frequency .....	1.25k/1.6k/2k/2.5k/3.15k/4k
BAND 4 frequency .....	5k/6.3k/8k/10k/12.5k/16k
Gain .....	-9dB, -7, -5, -3, -1, 0, 1, 3, 5, 7, 9
Q control .....	0.25/0.5/1.0/2.0
X'over	
HIGH PASS FILTER	
Frequency ....	THR/30/40/50/60/70/80/90/100/120/150/180/220/250Hz
SLOPE .....	12/18/24dB
LOW PASS FILTER	
Frequency ....	THR/30/40/50/60/70/80/90/100/120/150/180/220/250Hz
SLOPE .....	12/18/24dB
Time alignment .....	0~6.1m (5cm Step) / 0~20.3ft (0.17ft Step)
Channel level .....	±10dB

## FM

Frequency range (Frequency step)	
DDX8017 .....	87.9~107.9MHz (200kHz)
DDX8047/8067 .....	87.5~108.0MHz (50kHz)
Usable sensitivity (S/N : 30dB) .....	9.3dBf (0.8μV/75Ω)
Quieting sensitivity (S/N : 50dB) .....	15.2dBf (1.6μV/75Ω)
Frequency response (±3.0dB) .....	30Hz~15kHz
S/N .....	70dB (MONO)
Selectivity .....	Over 80dB (±400kHz)
Stereo separation .....	40dB (1kHz)

## AM

Frequency range (Frequency step)	
DDX8017 .....	530kHz~1700kHz (10kHz)
DDX8047/8067 .....	531kHz~1611kHz (9kHz)
Usable sensitivity .....	28dBμ

## Video

Color system of external video input	
DDX8017 .....	NTSC
DDX8047/8067 .....	NTSC/PAL
External video input level (RCA jacks) .....	1Vp-p/75Ω
External audio max input level (RCA jacks) .....	1V/22kΩ
Analog RGB input .....	0.7Vp-p/75Ω

## Audio

Maximum Power (Front & Rear) .....	50W x 4
Full Bandwidth Power (Front & Rear)	
DDX8017 .....	22W x 4 (4Ω, 14.4V, 1% THD)
DDX8047/8067 .....	22W x 4 (at less than 1% THD)
Preout level .....	5V/10kΩ
Preout impedance .....	80Ω

## ■ General

Operating voltage .....	14.4V (11V~16V)
Current consumption .....	15A
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°C~60°C
Storage temperature range .....	-20°C~85°C
Weight .....	3.0kg / 6.6 lbs

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## SPECIFICATIONS (DDX8027/8027Y/8037)

### Monitor Section

Picture size ..... 6.4 inches (diagonal) wide  
W x H ..... 143.6 W x 77.1 H (mm)  
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 Section

D/A Converter ..... 24Bit  
Decoder  
..... Linear PCM/Dolby Prologic II/Dolby Digital/dts/MP3/WMA  
Wow & Flutter ..... Below Measurable Limit  
Frequency response  
96k Sampling ..... 20~22,000Hz  
48k Sampling ..... 20~22,000Hz  
44.1k Sampling ..... 20~20,000Hz  
Total harmonic distortion 1kHz ..... 0.007%  
Signal to Noise ratio ..... 95dB (DVD-Video 96k)  
Dynamic range ..... 95dB (DVD-Video 96k)  
DISC Format ..... DVD-Video/VIDEO-CD/CD-DA  
Sampling frequency ..... 44.1kHz/48kHz, 96kHz  
Quantifying bit number ..... 16/20/24bit

### DSP Section

4 BAND Parametric equalizer  
BAND 1 frequency ..... 60/80/100/120/160/200  
BAND 2 frequency ..... 250/315/400/500/630/800/1k  
BAND 3 frequency ..... 1.25k/1.6k/2k/2.5k/3.15k/4k  
BAND 4 frequency ..... 5k/6.3k/8k/10k/12.5k/16k  
Gain ..... -9dB, -7, -5, -3, -1, 0, 1, 3, 5, 7, 9  
Q control ..... 0.25/0.5/1.0/2.0  
X'over  
HIGH PASS FILTER  
Frequency .... THR/30/40/50/60/70/80/90/100/120/150/180/220/250Hz  
SLOPE ..... 12/18/24dB  
LOW PASS FILTER  
Frequency .... THR/30/40/50/60/70/80/90/100/120/150/180/220/250Hz  
SLOPE ..... 12/18/24dB  
Time alignment ..... 0~6.1m (5cm Step)  
Channel level ..... ±10dB

### FM

Frequency range (Frequency step)  
..... 87.5~108.0MHz (50kHz)

Usable sensitivity (S/N : 26dB) ..... 9.3dBf (0.7μV/75Ω)  
Quieting sensitivity (S/N : 46dB) ..... 15.2dBf (1.6μV/75Ω)  
Frequency response (±3.0dB) ..... 30Hz~15kHz  
S/N  
DDX8027/8027Y ..... 65dB (MONO)  
DDX8037 ..... 70dB (MONO)  
Selectivity ..... Over 80dB (±400kHz)  
Stereo separation  
DDX8027/8027Y ..... 35dB (1kHz)  
DDX8037 ..... 40dB (1kHz)

### MW

Frequency range (Frequency step)  
..... 531kHz~1611kHz (9kHz)  
Usable sensitivity ..... 25μV

### LW

Frequency range ..... 153kHz~281kHz  
Usable sensitivity ..... 45μV

### Video

Color system of external video input ..... NTSC/PAL  
External video input level (RCA jacks) ..... 1Vp-p/75Ω  
External audio max input level (RCA jacks) ..... 1V/22kΩ  
Analog RGB input ..... 0.7Vp-p/75Ω

### Audio

Maximum Power (Front & Rear) ..... 50W x 4  
Full Bandwidth Power (Front & Rear)  
DDX8027/8027Y ... 30W x 4 (PWR DIN45324, +B=14.4V)  
DDX8037 ..... 22W x 4 (at less than 1% THD)  
Preout level ..... 5V/10kΩ  
Preout impedance ..... 80Ω

### General

Operating voltage ..... 14.4V (11V~16V)  
Current consumption ..... 15A  
Dimensions (W x H x D) ..... 182 x 112 x 163 (mm)  
Operational temperature range ..... -10°C~60°C  
Storage temperature range ..... -20°C~85°C  
Weight ..... 3.0kg

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

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