

KDV-415U/5244U/5544U /MP5042U/MP5343U /MP5443U

SERVICE MANUAL REVISED

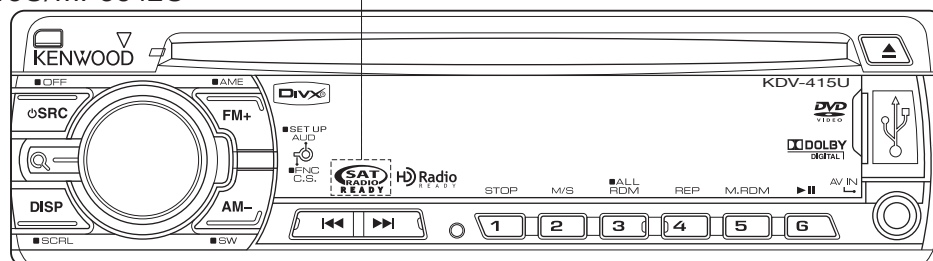
KENWOOD

Kenwood Corporation

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B53-0726-20 (N) 0

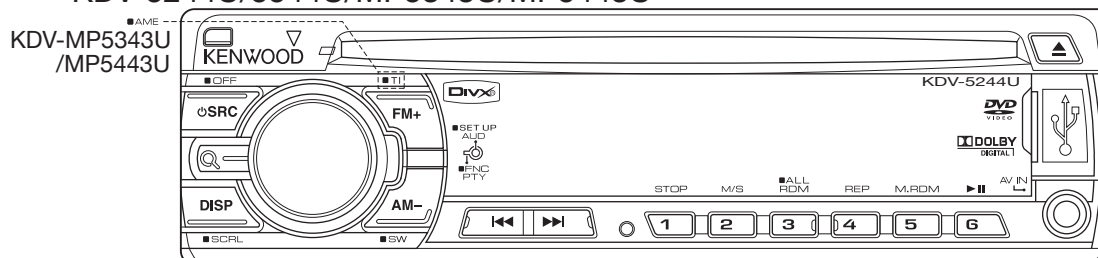
KDV-415U/MP5042U

KDV-415U only



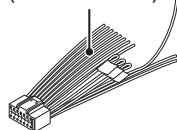
Panel assy
KDV-415U:
(A64-4792-12)
KDV-MP5042U:
(A64-4793-12)

KDV-5244U/5544U/MP5343U/MP5443U

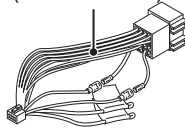


Panel assy
KDV-5244U:
(A64-4794-12)
KDV-5544U:
(A64-4795-12)
KDV-MP5343U:
(A64-4796-12)
KDV-MP5443U:
(A64-4797-12)

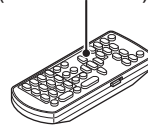
DC cord *
(E30-6767-05)



DC cord *
(E30-6799-05)



Remote controller assy
(A70-2101-05)

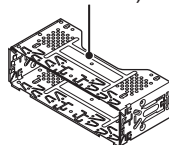


RC-DV350

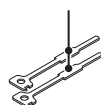
SIZE AAA BATTERY
(Not supplied)



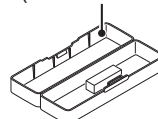
Mounting hardware assy
(J22-0789-03)



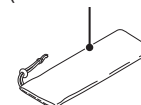
Lever
(D10-7049-04) x2



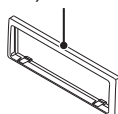
Plastic cabinet assy *
(A02-2757-13)



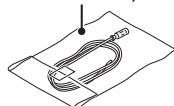
Carrying case *
(W01-1710-05)



Escutcheon *
(B07-)



Connecting cord assy
(E30-6920-05)



Screw set *
(N99-1757-15)



Screw *
(N84-4016-48)



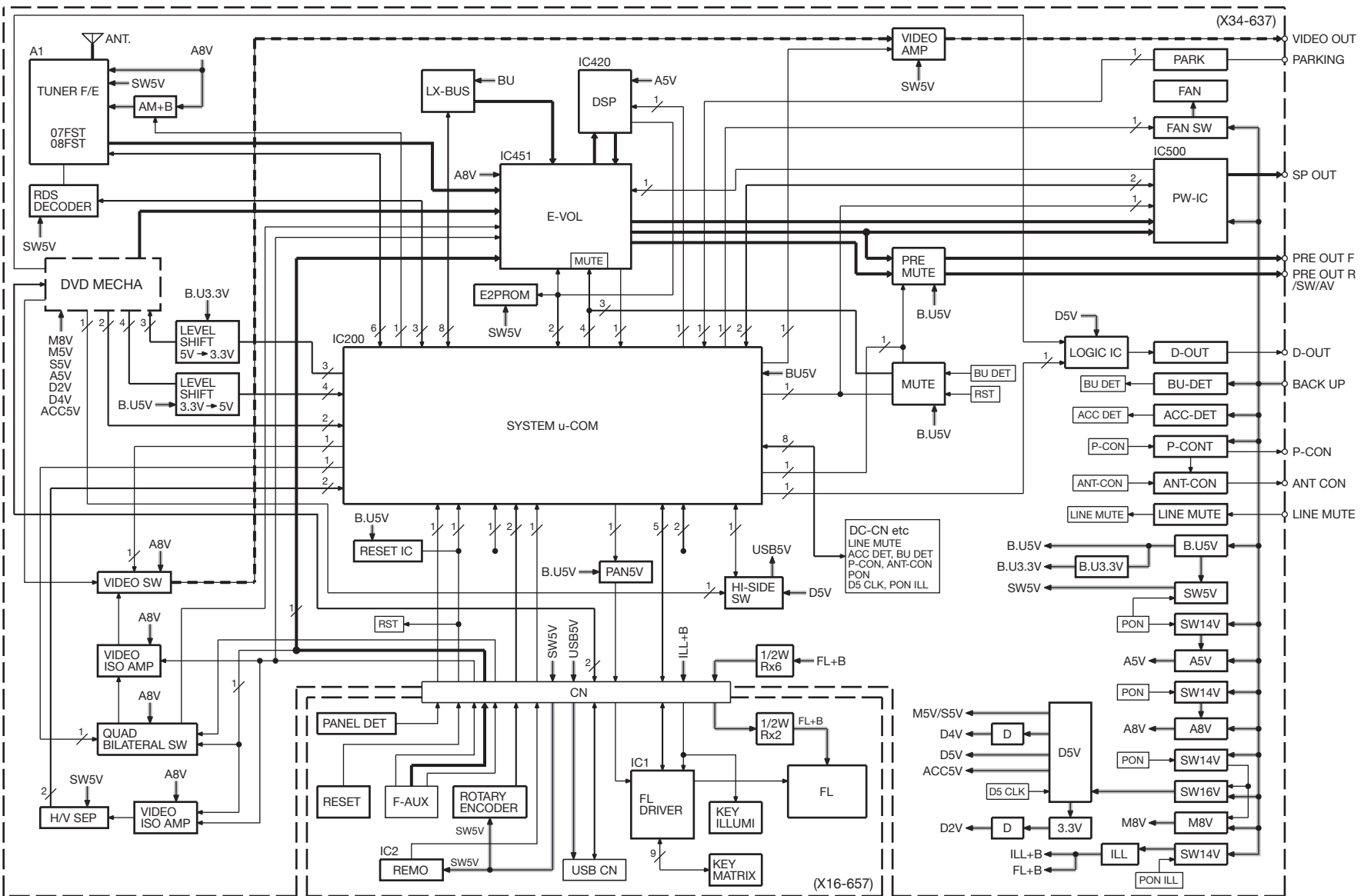
TDF SPARE-PANEL

MODEL	TDF PANEL No.	TDF NAME
KDV-415U	Y33-3150-10	TDF-DV415U
KDV-MP5343U	Y33-3150-21	TDF-DV5343U
KDV-MP5443U	Y33-3150-71	TDF-DV5443U
KDV-5244U	Y33-3152-71	TDF-DV5244U
KDV-5544U	Y33-3152-72	TDF-DV5544U
KDV-MP5042U	Y33-3153-21	TDF-DV5042U

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

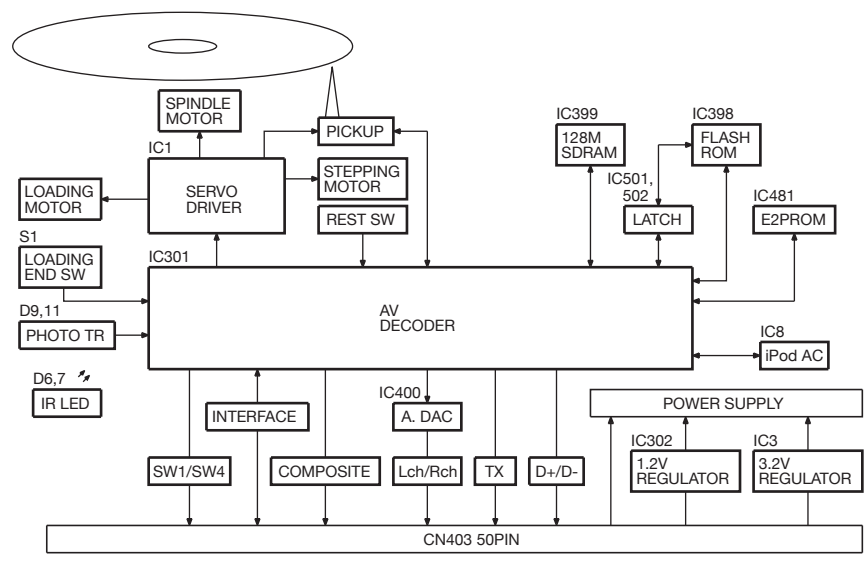


BLOCK DIAGRAM



BLOCK DIAGRAM

DVD UNIT (D40-2229-05)



COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-657x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	FL Driver	
IC2	Remote Control Sensor	

● ELECTRIC UNIT (X34-637x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC10	EEPROM	EEPROM for Rom collection.
IC20	Voltage regulator	Voltage regulator for A8V power supply.
IC60	Voltage regulator	Voltage regulator for D2V power supply.
IC80	Voltage regulator	Voltage regulator for D5V power supply.
IC120	Invertor	Logic invertor.
IC150	Switch	Switch for digital output.
IC160	Voltage regulator	Voltage regulator for BU3.3V power supply.
IC170	Non invert buffer	Logic level convert 3.3V to 5V.
IC171	Non invert buffer	Logic level convert 5V to 3.3V.
IC180	Video amp.	Amplifier for video signal.
IC200	Microprocessor	Microprocessor.
IC201	Reset IC	Reset IC for Microprocessor.
IC420	DSP	Digital sound field processor with graphic equalizer.
IC451	Electric volume	Volume control with input selector.
IC475	Switch	Switch for USB power supply.
IC500	Power amp	Amplifier for audio signal.
IC551	RDS Decoder	RDS Decoder
IC601	Switch	Switch for Right channel or Video.
IC620	Switch	Video signal selector
IC630	Video signal detector	Detect video signal input.
IC671,672	Video amp.	Amplifier for video signal.
Q10,11	Voltage regulator	Voltage regulator for BU5V power supply.
Q15,16	Switch	Switch for SW5V power supply.
Q20,21	Switch	Switch for A8V power supply.
Q22	Voltage regulator	Voltage regulator for A8V power supply.
Q25,26	Voltage regulator	Voltage regulator for A5V power supply.
Q27,28	Switch	Switch for A5V power supply.
Q30,31	Voltage regulator	Voltage regulator for SW16V power supply.
Q32,33	Switch	Switch for SW16V power supply.
Q40,41	Voltage regulator	Voltage regulator for Illumination power supply.
Q42,43	Switch	Switch for Illumination power supply.
Q50,51	Voltage regulator	Voltage regulator for M8V power supply.
Q100,101	Switch	Switch for ANT-Control power supply.
Q102-105	Switch	Switch for P-Control power supply.
Q115	Invertor	Logic invertor.
Q120	Over Voltage Detector	Detect battery voltage. (Over 17V)
Q122	Under Voltage Detector	Detect battery voltage. (Under 9V)
Q123	ACC Voltage Detector	Detect ACC voltage. (Under 9V)
Q140,141	Switch	Switch for cooling fan power supply.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q142,143	Voltage regulator	Voltage regulator for cooling fan power supply.
Q190	Parking Detector	Detect parking brake.
Q301,302	Switch	Switch for AM+B power supply.
Q351	Switch	Switch for PAN5V power supply.
Q401-404	Switch	Switch for Preout mute.
Q451	Clip Detector	Detect audio signal level.
Q601-604	Switch	Switch for video terminate resistor.
Q605-607	Invertor	Logic invertor.

● DVD UNIT

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Servo Driver	Driver Feed motor, Spindle motor, Loading/Eject Motor and pick-up actuator
IC3	Power supply IC for D3.2V	D4V→D3.2V
IC7	2-channel Multiplexer	Switch for changes of servo signal and I2C signal
IC8	Microcontroller	Certification chip for iPods
IC301	DVD processor	MPEG decoder function processor (AV decoder)
IC302	Power supply IC for D1.2V	D2V→D1.2V
IC308	IC for crystal oscillations	48MHz for USB
IC398	FLASH ROM	Firmware maintaining for DVD processor
IC399	SDRAM IC	SDRAM for DVD processor
IC400	2ch D/A converter	Convert audio digital signal to analog signal
IC481	32kbit EEPROM	Store user setting , servo parameter and etc.
IC501,502	8bit D-type Latch	Latch to divide an address and data
Q2	Transistor with resistance included	Loading/Eject Motor Speed control
Q4,7	Transistor	Orthopedic treatment in a wave pattern
Q8,9	Transistor	Switch on/off HFM power
Q101	Transistor	Drive DVD lazer power
Q102	Transistor	Switch on/off DVD lazer power
Q103	Transistor	Drive CD lazer power
Q104	Transistor	Switch on/off CD lazer power
Q105	Transistor	Switch for changes of CD VR and DVD VR
Q106	MOS FET	Switch on/off DVD VR
Q107	MOS FET	Switch on/off CD VR
Q301	Transistor with resistance included	Level conversion of SW1 singnal
Q302	Transistor with resistance included	Level conversion of SW4 singnal

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM μ -COM 30626MHPC03GP (X34 : IC200)

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
1	LX_MUTE	I	Mute request from slave unit	H: Mute ON, L: Mute OFF
2,3	NC	O		
4	REMO	I	Reading in the signal from remote controller	
5	VSYNC	I	Vertical synchronizing signal input	50/60Hz: For general use Other than 50/60Hz: Only for iPod/audio
6	BYTE			
7	CNVSS			
8	XCIN	I	32.768kHz	
9	XCOUT	O	32.768kHz	
10	RESET	I		
11	XOUT	O	12MHz	
12	VSS			
13	XIN	I	12MHz	
14	VCC1			
15	NMI	I	Not used	
16	PAN_DET	I	Panel detection	L: With PANEL, H: Without PANEL
17	RDS_CLK	I	RDS decoder CLK input terminal (Models with RDS)	Used in models whose destination requires the model with RDS/RBDS.
17	NC	O	Not used in models without RDS	Not used. Output is fixed to L
18	LX_REQ_S	I	Communication request from slave unit	
19	PON_AM	I/O	AM power supply control	When AM is operated: H, When AM is not operated: Hi-Z
20	DSP_PDN	O	DSP reset terminal	H: Normal, L: Reset
21	TUN_IFC_OUT	I	F/E IFC OUT input terminal	H: Station exists, L: Station does not exist
22	D5_CLK	O	Clock output terminal for SW-REG	
23	RDS_AFS_M	I/O	Noise detection time constant switching Only in 07FST(E)	
23	NC	O	Not used in models without RDS/08FST	Not used. Output is fixed to L
24	RDS_QUAL	I	RDS decoder QUAL input terminal	
24	NC	O	Not used in models without RDS	Not used. Output is fixed to L
25	RDS_DATA	I	RDS decoder DATA input terminal	
25	NC	O	Not used in the models without RDS	Not used. Output is fixed to L
26	NC	O	Not used	Not used. Output is fixed to L
27	TUN_SCL	O	F/E I2C clock I/O terminal	(MAX 400kHz)
28	TUN_SDA	I/O	F/E I2C data I/O terminal	
29	VFD_SYS_DATA	O	VFD data output terminal	VFD data output
30	VFD_PAN_DATA	I	VFD data input terminal	VFD data input
31	VFD_CLK	O	VFD communication clock output terminal	In normal operation condition: 125kHz In low power consumption mode: 62.5kHz
32	VFD_BLK	O	VFD driver reset output	H: RESET clear, L: RESET During momentary power down, when panel is detached, or in 11 minutes after ACC_OFF: L
33	BE_SDATA	O	Data output terminal to DVD BE	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
34	BE_MDATA	I	Data input terminal from DVD BE	
35	BE_CLK	I	DVD BE IC2 clock input terminal	
36	BE_MUTE	I	Mute request from DVD BE	
37	BE_SREQ	O	Communication request terminal to DVD BE	
38	PON_PANEL	I/O	Panel 5V control terminal	ON (in 11 minutes after ACC OFF): L During momentary power down, when panel is detached, or in 11 minutes after ACC_OFF: Hi-Z
39	EPM	I	FLASH EPM input terminal	
40	ROMCOR_DET	I	E2PROM writing-in request	H: Writing-in
41	NC	O	Not used	Not used. Output is fixed to L
42	BE_LOS	I	DVD mechanism loading start	
43	BE_LOE	I	DVD mechanism loading end	
44	VFD_CE	O	VFD driver CE	VFD driver CE output
45-47	NC	O		Not used. Output is fixed to L
48	OVER_CURRENT	I	Over current detection	Normal current: H, Over current: L
49,50	NC	O		Not used. Output is fixed to L
51	ROTARY_CW	I	Rotary encoder Clockwise	
52	ROTARY_CCW	I	Rotary encoder Counter clockwise	
53,54	NC	O		Not used. Output is fixed to L
55	NC	O	Not used	Not used. Output is fixed to L
56	V_MUTE	O	Video output IC power saving	H: OFF, L: ON
57	PON_ILLUMI	I/O	Key illumi & FL power supply control	ON:H, OFF:Hi-Z
58	D_OUT	O	Digital output ON/OFF	
59	PON	I/O	Power supply control	POWER ON: H, POWER OFF: Hi-Z
60	VCC2			
61	BE_RESET	O	DVD BE reset control	H: Normal operation, L: Reset
62	VSS			
63	TYPE_1	I	Destination switching	Refer to the truth value table
64	TYPE_2	I	Destination switching	Refer to the truth value table
65	FAN_SW	O	Fan ON/OFF control	H: ON, L: OFF
66	PAR_DET	I	Parking detection	L: During running, H: During parking
67	P_CON	I/O	External amplifier control terminal	POWER ON: H, POWER OFF: Hi-Z In the standby source: Hi-Z
68	AUX_VI	O	AUX Video/R change control	H: For general use, L: Only for iPod/audio
69	V_SEL	O	Video output switching	L: DVD, H: AUX
70	HSYNC	I	Horizontal synchronizing signal input	15.7kHz: For general use Other than 15.7kHz: Only for iPod/audio
71	BU_DET	I	Momentary power down detection	With BU: L Without BU, During momentary power down: H
72	BE_MREQ	I	Communication request terminal from DVD BE	
73	ST_DC_DET	I	Voltage short and ground short detection	
74	PWIC_MUTE	O	Power ICMUTE terminal	In STANDBY source, During momentary power down: L In TEL MUTE: L

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing / Operation / Description
75	NC	O	Not used	Not used. Output is fixed to L
76	ANT_CON	I/O	Power antenna control	TUNER ON: H, Other than tuner: Hi-Z
77	ACC_DET	I	ACC power supply detection	With ACC: L, Without ACC: H
78	PWIC_STBY	O	Power IC standby control	POWER ON: H, POWER OFF: L
79	LX_CON	O	Start-up request to slave unit	H: Slave unit ON, L: Slave unit OFF
80	AUD_SDA	O	E-VOL data output terminal	I2C communication
80	DSP_SDA	O	DSP data output terminal	I2C communication
80	EEPROM_SDA	O	ROM correction data saving E2PROM	I2C communication
81	AUD_SCL	O	E-VOL clock output terminal	I2C communication
81	DSP_SCL	O	DSP clock output terminal	I2C communication
81	EEPROM_SCL	O	ROM correction data saving E2PROM	I2C communication
82	MUTE_PRE_FR	O	FR_PRE_OUT MUTE	During momentary power down: L
83	NC	O	Not used	Not used. Output is fixed to L
84	MUTE_0	O	E-VOL FRONT MUTE terminal	ON: L, OFF: H
85	MUTE_1	O	E-VOL REAR MUTE terminal	ON: L, OFF: H
86	MUTE_2	O	E-VOL SUB WOOFER MUTE terminal	ON: L, OFF: H
87	LINE_MUTE	I	Line mute detection	TEL MUTE: 1V or less (For destination J: NAVI MUTE) NAVI MUTE: 2.5V or more (For all the destinations)
88	NC	O	Not used	Not used. Output is fixed to L
89	DC_DET	I	DC offset detection terminal	
90	LX_RST	O	Hardware-reset to slave unit	H: Reset, L: In normal condition
91	MUTE_AFS	O	(Only for destination E) AFS MUTE	For destination E; L: Mute on, H: Mute off For other destinations than E: See the following
91	MUTE_A	O	OUT terminal for EVOL_DSP	ON: L, OFF: H
92	LX_REQ_M	O	Communication request to slave unit	
93	RDS_NOISE	I	FM noise detection terminal	
93	NC	O	Not used in the models without RDS	Not used. Output is fixed to L
94	AVSS			
95	TUN_SMETER	I	S meter input	
96	VREF			
97	AVCC			
98	LX_DATA_S	I	Data from slave unit	
99	LX_DATA_M	O	Data to slave unit	
100	LX_CLK	I/O	LX BUS clock	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Destination setting

Model with 08FST

TYPE_2 (64)	TYPE_1 (63)	Model	Display	USB
1	1	KDV-MP4343(M)	872M	
1	2	KDV-MP4443(X)	872X	
1	3			
1	4	KDV-MP5443U(X)	873X	●
1	5	KDV-MP5343U(M)	873M	●
2	1			
2	2			
2	3			
2	4			
2	5	VDR-77(J)	873J	●
3	1			
3	2			
3	3	(Reserve)		
3	4			
3	5			
4	1			
4	2			
4	3			
4	4			
4	5			
5	1	KDV-415U(K)	873K	●
5	2			
5	3			
5	4			
5	5	KDV-MP5042U(R)	873R	●

*

Model with 07FST

TYPE_2 (64)	TYPE_1 (63)	Model	Display	USB
1	1			
1	2			
1	3			
1	4			
1	5			
2	1			
2	2			
2	3			
2	4			
2	5			
3	1	KDV-4244(E)	872E	
3	2			
3	3	(Reserve)		
3	4			
3	5	KDV-5244U(E)	873E	●
4	1	KDV-4544(E2)	872E2	
4	2			
4	3			
4	4			
4	5	KDV-5544U(E2)	873E2	●
5	1			
5	2			
5	3			
5	4			
5	5			

(Note 1) When there is no setting specified, the model operates as the model designated with [*].

(Note 2) The model is set up such that the value bigger than others is set to be the higher voltage.

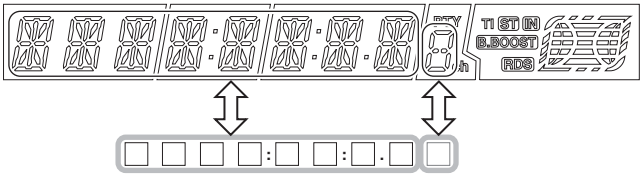
(Note 3) When “Reserve” is set up, the destination setting data is read out from E2PROM and the data is used to set up the destination in the model. The destination shall be selectable from the MENU in the test mode.

Model	Type1 (63)	Type2 (64)	Type1 (63)		Type2 (64)		Features
			Pull up	Pull down	Pull up	Pull down	
KDV-415U	1	5	×	22k	22k	×	USB
KDV-MP5042U	5	5	22k	×	22k	×	USB
KDV-5244U	5	3	22k	×	22k	22k	USB
KDV-5544U	5	4	22k	×	22k	47k	USB
KDV-MP5343U	5	1	22k	×	22k	22k	USB
KDV-MP5443U	4	1	22k	47k	×	22k	USB
VDR-77	5	2	22k	×	×	22k	USB
KDV-4244	1	3	×	22k	22k	22k	No USB
KDV-4544	1	4	×	22k	22k	47k	No USB
KDV-MP4343	1	1	×	22k	×	22k	No USB
KDV-MP4443	2	1	47k	22k	×	22k	No USB

TEST MODE

Supplemental notice for these specifications

Descriptions for the displays in the following tables are referencing the 8-digit part of 14-segment Vacuum Fluorescent Display (VFD) and 1-digit part of 7-segment VFD, which are illustrated in the below figure.



A symbol “■” in the key column indicates that the key should be pressed and held for 1 second or longer.

Key	Description of display		Description
5	Disc EJECT times display	[E] [J] [C] [X] [X] [X] [X] [X] []	Disc EJECT times display. MAX 65535 (times)
■5			While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.

How to enter the test mode

Procedure	Note
Press and hold the [1] key and [3] key and reset.	

- All lamps blink when it is detected that the sub-clock resonator is disconnected.
 - When having started up in the test mode, change the LINE MUTE inhibition time from 10 seconds to 1 second.
 - When operating in the test mode, the serial number shall not be written with the serial number writing-in tool.
 - When operating in the test mode, even if a DC offset error occurs, detection information is not written in the E2PROM.
 - When operating in the test mode, CD mechanism error log information clear mode, and DC offset error detection information clear mode, do not perform DEMO mode operations.
- Also, do not display DEMO ON/OFF option items in the MENU in STANDBY source in the above modes.

How to clear the test mode

Procedure	Note
Reset, momentary power down, ACC OFF, Power OFF, Panel detached.	Clearing the test mode

Test mode default condition

Description	Default values
Source	STANDBY
Display	Display lights are all turned on.
Volume	-10dB (“30” is displayed.)
DSP	Bypass
CRSC	OFF regardless of having/not having the switching function.
AV-IN	ON1
Switching Preout	Rear

TEST MODE

Special displays when all lights are on in STANDBY source

Key	Description of display	Description
Common	All lights ON. □ □ □ □ □ □ □ □ □	All lights ON.
1	Destination terminal condition indication T Y P E : 1 1 □ □ □	“TYPE” indicates system μ-com (IC200) destination, and shows real-time condition of the destination terminal.
	Development ID condition indication 8 7 3 E 2 - 3 . 0 0	Development ID – Version (system μ-com: IC200)
	DVD Region display R E G □ : E 2 - 2 □	REG: Mechanism destination (Attachment) – Region number (1~6)
	DVD mechanism version display M E C □ 9 0 6 8 □	MEC ****: Mechanism F/W version
2	Serial No. display 0 0 0 0 0 0 0 0 □	Serial No. is displayed (8 digits)
3	Power ON time display P O N □ 0 H X X □ P O N X X X X X X □	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■3		When Power ON time is displayed, press and hold for 2 seconds or longer to clear Power ON time.
4	Disc operation time display D V D □ 0 H X X □ D V D X X X X X X □	00~50 is displayed for “XX”. When less than 1 hour, displayed by increments of 10 minutes.
		00001~10922 is displayed for “XXXXX”. MAX 10922 (hours)
■4		While the disc operation time is displayed, press and hold for 2 seconds or longer to clear the disc operation time. (Cleared only for displayed media.)
5	Disc EJECT times display E J C X X X X X X □	Disc EJECT times display. MAX 65535 (times)
■5		While disc EJECT times is displayed, press and hold for 2 seconds or longer to clear disc EJECT times.
6	Panel open/close times display P C □ X X X X X X □	PANEL open/close times display. MAX 65535 (times)
■6		Press the key for more than 2 seconds while the PANEL open/close count is displayed and PANEL open/close count is cleared.
FM	ROM correction version display R O 1 2 3 □ □ □ □ E R R □ □ □ □ □ □ R - - - - □ □ □ □ R * * * * □ □ □ □	The number is the ROM correction version number. R#### (System μ-com ROM correction version)
		When E2PROM is not installed.
		When not written in yet.
		When data not matched. (due to the difference in versions)
AM	FL-tube short check □ □ □ □ □ □ □ □ □	Turns off all the lights → Turns on odd and even terminals alternately every 125ms (terminals that have a maximum number of grids) → Turns on only the odd terminals → Turn on only the even terminals →
▶▶	Audio data initialization A U D □ I N I T □	AUDIO setting value is re-set to the test mode default value.
◀◀	Forced Power OFF information display P O F F □ - - - □ P O F F □ P N L □	No forced power OFF
		Forced power OFF by communication error between system μ-com and panel.
		While the forced power OFF data is displayed, press and hold for 2 seconds to clear the data.
DISP	CD information display mode ON/OFF □ □ □ □ □ □ □ □ □	For the display contents, refer to “CD information display mode” in the next section.
■DISP		While in CD information display mode, press and hold for 2 seconds or longer to clear all CD information.

TEST MODE

• CD/DVD information display mode

Key	Description of display		Description
FM (forward rotation)	◀▶	CD mechanism error log display	M C E R R 1 : X X Mechanism error log 1 (Latest) XX: Error number. “–” is displayed in case there is no error.
			M C E R R 2 : X X Mechanism error log 2 (Latest) XX: Error number. “–” is displayed in case there is no error.
			M C E R R 3 : X X Mechanism error log 3 (Latest) XX: Error number. “–” is displayed in case there is no error.
	◀▶	CD Load error information display	L D E R R : X X Load error XX: Number of errors. “–” is displayed in case there is no error.
		CD Ejection error information display	E J E R R : X X Ejection error XX: Number of errors. “–” is displayed in case there is no error.

Test mode specifications in TUNER source

Error is found in front-end (A1), etc. if indications below is displayed while in tuner source.

Status	Display	Description
Front-end (A1) E2PROM data error	T N E 2 P N G	Front-end (A1) E2PROM is still the default (unspecified) value.
Front-end (A1) communication error	T N C O N N G	Communication with front-end (A1) is not possible.
Destination mismatch	T N T Y P N G	When destination is mismatch between front-end (A1) E2PROM and the product. (08FST model only)

• TUNER preset operation

Key	Description of display	Description
4	Preset function	Change to 98.3MHz with the preset key [4].

• K3I forced switching

Every time when [6] key is pressed in tuner FM source, switched in the following order: AUTO → Forced WIDE → Forced MIDDLE → Forced NARROW → AUTO. Default status is AUTO, and displayed as shown below.

Key	Description of display	Description
6	K3I Forced switching	F M 1 9 8 . 1 A AUTO
		F M 1 9 8 . 1 W Forced WIDE
		F M 1 9 8 . 1 M Forced MIDDLE
		F M 1 9 8 . 1 N Forced NARROW

• RDS automatic measurement (Only in RDS model)

Add this measurement instead of the visual inspection of PS display that has been used in the production line.

Status	Display	Description
PS data reception	R D S T E S T	When the text shown in the left cell (i.e., RDS TEST) is displayed, P-CON shall be turned off forcibly. P-CON returns when the power is turned off/on (POWER OFF/ON).

• FST adjustment mode

Perform FST soft-mute adjustment.

Key	Note
■DISP	To enter into FST adjustment mode (Press and hold the key for 1 second). In FM, the frequency changes to 98.3MHz. * Note that operations after entering the adjustment mode are different from one unit to another depending on when the design of these units was finalized.

TEST MODE

Operations in the FST adjustment mode are as follows:

Key			Description of display										Description		
FM (UP) AM (DOWN)	⏮/⏭		Soft-mute adjustment	S	M	D	-	F					0 ↔ 7 (08FST)		
	DISP	⏮/⏭	Seek Stop Level adjustment (Auto)	A	T	N					V		0.00 (V) ↔ 5.00 (V). Normal (Local OFF)		
		⏮/⏭	Seek Stop Level adjustment (Auto)	A	T	L					V		0.00 (V) ↔ 5.00 (V). Normal (Local ON)		
	DISP	⏮/⏭	Seek Stop Level adjustment (Manual)	M	N	N					V		0.00 (V) ↔ 5.00 (V). Normal (Local OFF)		
		⏮/⏭	Seek Stop Level adjustment (Manual)	M	N	L					V		0.00 (V) ↔ 5.00 (V). Normal (Local ON)		
■AUD			Adjustment value memory	E	P			W	R	I	T	E	Displays the data that has been written in the E2PROM when pressing the key for 2 seconds or longer.		
AUD			Mode clear	F	M	1			9	8	.	3	A	4	Clear the FST adjustment mode. (Returns to normal display and the test mode is retained.)

Switch Local Seek ON or OFF by briefly pressing [DISP] key when the Local Seek ON/OFF switching is allowed in the band.
After completing the FST adjustment, if you wish to clear the test mode, you can do this using the reset button.

Test mode specifications in DVD source

Display mode default	DVD: Title/Chapter No., Other than DVD: P-Time
----------------------	--

When Title/Chapter No. of DVD is displayed, the time code (second) is displayed at the 7-segment VFD.

• Procedure in CD-DA media (KTD-02A)

Key	Description of display		Description
⏭	Track up procedure		Every time pressed, jumps to the track shown below. No.9 → No.15 → No.10 → No.11 → No.12 → No.13 → No.22 → No.14 → No.9 (recursive) But in case the disc has 8 tracks or less, playback starts with track No.1. (For both CD-DA and compressed file discs)
⏮	Track down procedure		Goes down by 1 track from the currently played track.
1	Jump procedure		Jump to No.28 (Scratch 0.7mm for MUSIC line vibration testing)
2	Jump procedure		Jump to No.14 (Blurring surface disc TCD-731RA Tr14)
3	DVD mechanism Information display	[R] [E] [G] [] [E] [2] [-] [2] []	REG: Mechanism destination (Attachment) – Region number (1~6)
		[M] [E] [C] [] [9] [0] [6] [8] []	MEC ****: Mechanism F/W version
		[M] [/] [V] [] [] [1] [0] [0] []	Macrovision version
5			Jump to No.9 and No.22 (Preset 5 → Track 22 on other track than Track 22, and Preset 5 → Track 9 in Track 22) (For linearity check)
6	Jump procedure		Jump to No.15. Set the volume value to “25”. (For 20Hz 0dB DC protection false-operation FCT checking)
■6	Jump procedure		Jump to No.9. Set the volume value to “35”.

• Operations with compression media (MP3/WMA)

Description of display		Description
File type display (MP3)	[M] [P] [3] [] [] [] [] [] []	The file type is displayed just before the file play back.
File type display (WMA)	[W] [M] [A] [] [] [] [] [] []	

TEST MODE

• Operation 1 with DVD media (DVD video/audio check TDV-540A)

Operation			Tiitle	Chapter		
FM (forward rotation) AM (reverse rotation)	◀▶	DVD video check	1	1		Audio stream 1
			3	6	Level	Audio stream 1
			3	17	AM/PM noise	Audio stream 1
			3	8	Frequency characteristics	Audio stream 1
			3	7	S/N	Audio stream 1
	◀▶	DVD video check	1	1		Audio stream 1
			4	1	1kHz, 0dB	Dolby AC3 Audio stream 1
			4	6	17Hz	Dolby AC3 Audio stream 1
			4	15	20kHz	Dolby AC3 Audio stream 1
			4	2	Infinity	Dolby AC3 Audio stream 1
			4	3	L	Dolby AC3 Audio stream 1
			4	4	R	Dolby AC3 Audio stream 1

• Operation 2 with DVD media (Audio check in conjunction with layer change at the dual layer disc TTD-100)

Operation		Tiitle	Chapter			
[1] key or [ZOOM] key on remote controller	DVD audio check	1	1			Audio stream 1
		4	12	Check of layer change at the dual layer disc	The layer is changed in 5 seconds after TTD-100 is started.	Audio stream 1

The pickup moves to Title1-Chapter1 when the DVD Video disc is loaded.

Audio-related test mode

Procedure	Note
Press the [AUD] key (main unit) Press the [AUD] and [*] keys (Remote controller)	Enter audio adjustment mode (The default is Bypass). Fader → Balance → R-VOLUME (Dual zone) → SW Level (Switch Pre SW) → V-Offset → Dual zone

About audio adjustment items (include both Audio Function Mode and Audio Setup Mode)

Procedure	Item	Procedure	Description
For item forwarding procedure, press [AUD] key and [FM] key	Fader	[VOL] knob and [◀▶]key	Adjust to 3 steps of R15 ↔ 0 ↔ F15. (Default value: 0)
	Balance		Adjust to 3 steps of L15 ↔ 0 ↔ R15. (Default value: 0)
	R-VOLUME		Adjust to 2 steps of 0 ↔ 35. (Default value 35)
	SW LLevel		Adjust to 3 steps of -15 ↔ 0 ↔ +15. (Default value: 0)
	Volume Offset		In other modes than the internal AUX Adjust to 2 steps of -8 ↔ 0. (Default value: 0) Only in the internal AUX mode Adjust to 3 steps of -8 ↔ 0 ↔ +8. (Default value 0)
	Dual zone		Adjust to 4 steps of OFF ↔ DVD ↔ USB ↔ AVIN. (Default value: OFF)

Switching between DSP Bypass and Through (DSP Bypass ↔ Through)

Procedure	Note
Press and hold [Menu] key	Switching between DSP Bypass and Through (DSP Bypass ↔ Through) (Because the surface key functions as Menu)

Dual zone switching

Procedure	Note
Press and hold [AUD] key when the source is other than Standby source	Switching Dual zone between ON and OFF (Dual Zone ON/OFF) (Default value: OFF)

TEST MODE

Preout switching

Procedure	Note
Press and hold [AUD] key when the source is Standby source	Preout switching (1Preout / 2Preout model)

[ATT] key operation

Procedure	Note
In the TUNER source, press [DISP] key	ATT OFF/ON

MENU-related test mode

Procedure	Note
Press the [Menu] key (main unit) Press the [DNPP/SBF] and [DIRECT] keys (Remote controller)	Continuous forwarding by remote control is prohibited

Backup current measurement

Procedure	Note
While ACC OFF (Back Up ON), Reset	MUTE terminal is OFF after 2 seconds, not after 15 seconds. (During this time, the CD mechanism does not function.)

Fluorescent indicator (ED1) short check

Procedure	Note
In the STANDBY source, press [AM] key	All lights are off → Turns on odd and even terminals alternatively every 125ms (terminals that have a maximum number of grids) → Turns on only the odd terminals → Turn on only the even terminals →

E2PROM data all clear

Status	Display	Description
While pressing and holding [2] key and [5] key, reset-start.	C L R ☐ ☐ ☐ ☐ ☐ ☐	At normal termination
	C L R ☐ X ☐ ☐ ☐ ☐ ☐	At abnormal termination

Clear service data and installer memory saved in E2PROM.

While “- - - -” is displayed, power can be ON for 30 minutes. This mode is cancelled by resetting. (The last screen will not be retained.)

Data to be cleared is shown below.

CD mechanism information	CD mechanism error log display
	Displays CD loading error data
	Displays CD EJECT error data
	Displays CD time code count error data (missing count)
	Displays CD time code count error data (count not updated)
Service Information	Power ON time display
	CD operation time display
	CD EJECT times display
	PANEL open/close times display
	Forced Power OFF information display
DC offset error information	DC offset error 1 display (Provides information on whether there is an improper connection or another error)
	DC offset error 2 display (Provides information on the number of capacitor leaks)
Installer memory	Installer memory (DSP setting value) 1~3
Backup memory	Volume offset value
	Tuner preset data
	PAL-NTSC condition

TEST MODE

Clearing DC offset error detection data (E2PROM data clearing)

Procedure	Note
While pressing and holding [3] key and [6] key, reset-start.	Entering DC offset error display mode.

Procedure	Display	Description
Press and hold the [3] and [6] keys, and reset-start	D C □ □ E R R □ □	When DC offset error is detected (when either one of capacitors is leaking, or an improper connection or another error is detected)
	D C □ □ O K □ □ □	When DC offset error is not detected (when none of capacitors leak, no improper connection or other error is detected)
1	D C 1 □ E R R □ □	When improper connection or other DC offset errors are detected.
	D C 1 □ O K □ □ □	When improper connection or other DC offset errors are not detected.
■1	D C 1 □ O K □ □ □	When detecting improper connection or other DC offset errors, clears detection data. (Clear E2PROM)
2	D C 2 □ 4 □ □ □ □	When detecting capacitor leak, provides information on the number of capacitor leaks. (0~4)
■2	D C 2 □ 0 □ □ □ □	When detecting capacitor leak, clears the number of capacitor leaks. (Clear E2PROM)

This mode is cancelled by resetting. (The last screen will not be retained.)

FM/AM channel space switching (Only for models of destination “K” and “M”)

Procedure	Note
While Power OFF, press and hold [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz FM50kHz/AM10kHz ↔ FM200kHz/AM10kHz (KELA)

Security

• Forced Power ON mode

Procedure	Note
While pressing and holding [Menu] key and [4] key, reset-start.	While “- - - -” is displayed (in user registration), power can be turned ON for only 30 minutes. After 30 minutes, can only be recovered by resetting.

• Simple security code clear method

Procedure	Display	Description
Press and hold [▶▶] key for 3 seconds while [DISP] key is being pressed	C O D E : - - - - □	Carry out the procedure while “- - - -” is being displayed.
	C O D E : □ □ □ □ □	“- - - -” disappears.
Press the remote controller key [5] twice to display “K” and then press [▶▶] key.	C O D E : K □ □ □ □	
Press the remote controller key [2] three times to display “C” and then press [▶▶] key.	C O D E : K C □ □ □	
Press the remote controller key [2] once to display “A” and then press [▶▶] key.	C O D E : K C A □ □	
Press the remote controller key [7] twice to display “R” and then press [▶▶] key.	C O D E : K C A R □	
	A P P R O V E D □	Security cancelled. (If wrong character is input, code request mode is displayed.)

TEST MODE

ROM data transfer

When replacing front-end (A1), this function is used to transfer E2PROM data (ROM correction, security and other data) to front-end (A1) to E2PROM of to mother unit (X34-), used for saving data, and, after completing replacement of front-end (A1), to recover data from the E2PROM of the mother unit (X34-), and for saving data to the new front-end (A1). Refer to “ROM data transfer processes” on the next page for details on front-end (A1) replacement procedures and on the data to be transferred.

Procedure	Display	Description
While pressing and holding [1] key and [3] keys, reset-start	□ □ □ □ : □ □ □ □ □	All lights ON.
Press [Menu] key (Menu)	R O M □ R E A D □	MENU mode
Press [◀◀] key or [▶▶] key	R O M □ R E A D □	Front-end (A1) → Mother unit (X34-). Data transfer processing.
	R O M □ W R T □	Mother unit (X34-) → Front-end (A1). Data transfer processing.
(In the above ROM READ status), ■ [AUD] key for 2 seconds or longer	R E A D □ □ □ □ □	Front-end (A1) → Mother unit (X34-). ROM data is being transferred.
	R E A D □ O K □ □	Front-end (A1) → Mother unit (X34-). ROM correction data transfer is OK.
	R E A D □ N G □ □	Front-end (A1) → Mother unit (X34-). ROM data transfer is NG.
(In the above ROM WRT status), ■ [AUD] key for 2 seconds or longer	W R T □ □ □ □ □	Mother unit (X34-) → Front -end (A1). ROM data is being transferred.
	W R T □ □ O K □ □	Mother unit (X34-) → Front-end (A1). ROM correction data transfer is OK.
	W R T □ □ N G □ □	Mother unit (X34-) → Front-end (A1). ROM data transfer is NG.
(In every status of ROM data transfer), Press [Menu] key	□ □ □ □ : □ □ □ □ □	Clear from ROM correction data transfer processing

ROM DATA TRANSFER PROCESSES

Overview

When replacing front-end (A1) in the model where ROM correction and security data have been written into E2PROM, included in the front-end (A1) pack, the transfer function of the E2PROM data itself in the replaced front-end (A1) is required.

This function in the above system configuration is used to allow for complete replacement of the front-end at any service center.

Overview of specifications

Procedures for replacement are as follows: To install the E2PROM to the mother unit (X34-), and replace front-end (A1) with new front-end after copying the data in the E2PROM (such as ROM correction data and other data) in the front-end (A1) to the mother unit (X34-) by operating the system, and then copy the data (such as ROM correction data and other data) into the mother unit to the E2PROM of the front-end (A1), operating the main body.

ROM DATA TRANSFER PROCESSES

Tuner adjustment data was inserted during the tuner pack manufacturing, and data will not be transferred because front-end (A1) is built-in.

In addition, tuner adjustment data for new front-end (A1) is supplied as a service part in which data was inserted.

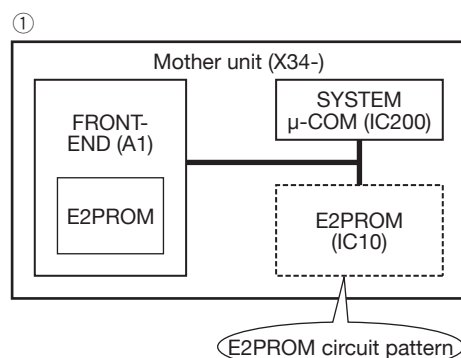
Data to be copied

- ROM correction data
- Other data
 - Security data
 - DEMO MODE ON/OFF status
 - POWER ON time (For maintenance)
 - Playback time (For maintenance)
 - EJECT count (For maintenance)
 - Panel open/close count (For maintenance)
 - CD I2C status (For maintenance)
 - CD offset error code (For maintenance)
 - CD sound skips count (For maintenance)
 - CD time code not updated count (For maintenance)
 - CD load switch errors count (For maintenance)
 - CD ejection errors count (For maintenance)
 - DC offset error (For maintenance)
 - Forced Power OFF information (For maintenance)
 - Serial number (For maintenance)
 - E2PROM data check data (For internal check)

Operation procedure

Operation procedure is different depending on the conditions. Proceed with the appropriate operation procedure depending on the specific condition.

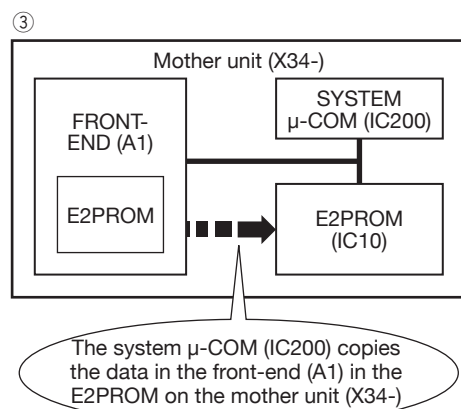
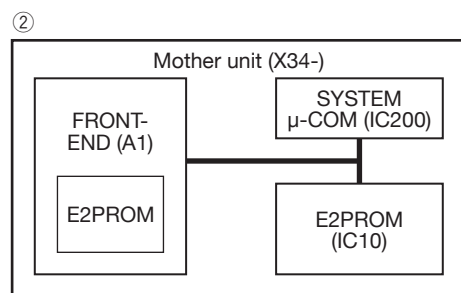
1. In case of replacing front-end (A1) without an applicable ROM correction.
2. In case of replacing front-end (A1) with an applicable ROM correction.
3. In case of applying new ROM correction at the same time when front-end (A1) is replaced. (No ROM correction has been carried out.)



Install new E2PROM.

Install E2PROM containing no data, in case of [1] and [2].

In case of [3], install maintenance E2PROM with an applicable ROM correction program.



In case of [2]

READ OK R-OK

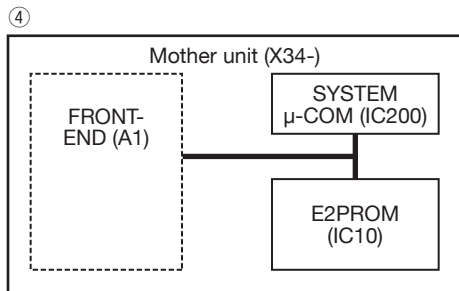
In case of [1] or [3]

READ OK2 R-O2



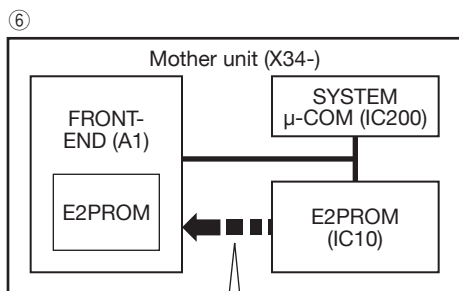
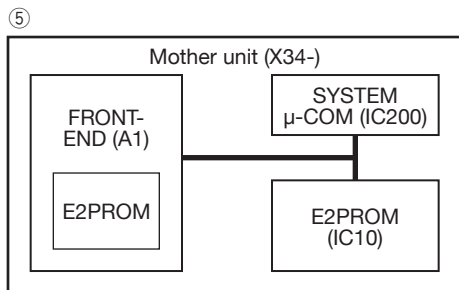
ROM DATA TRANSFER PROCESSES

Remove front-end (A1).



Install new front-end (A1).

No ROM correction or other data status.



System μ-COM (IC200) copies data on the mother unit (X34-) into E2PROM in the front-end (A1)

In case of [2] or [3]

WRT OK

W-OK

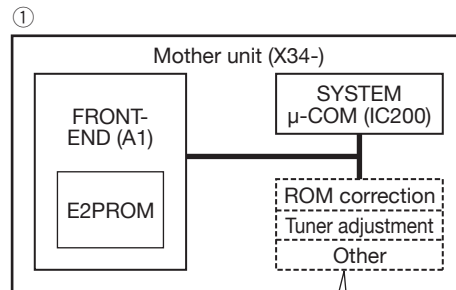
In case of [1]

WRT OK2

W-O2

4. In case of applying a new ROM correction when front-end (A1) is replaced (There is ROM correction data.)

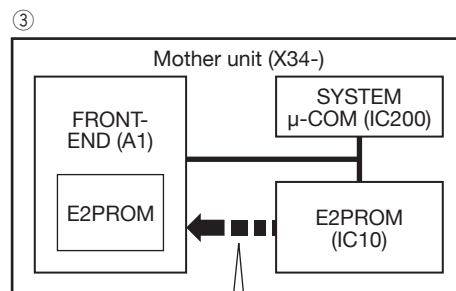
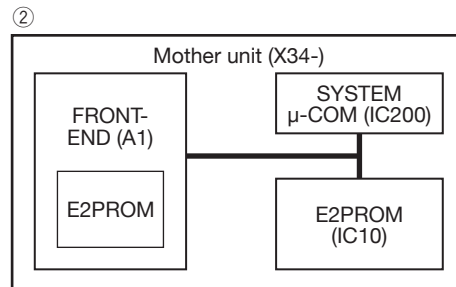
5. In case of applying a new ROM correction even when front-end (A1) is not replaced.



E2PROM circuit pattern



Install new E2PROM. (E2PROM that has been updated with ROM correction)



System μ-COM (IC200) copies the ROM correction data on the mother unit (X34-) into E2PROM in the front-end (A1)

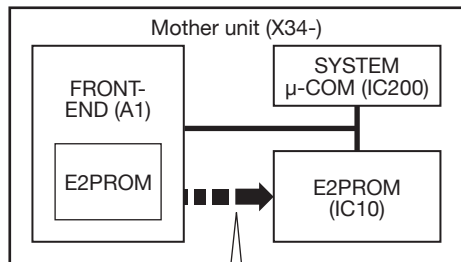
WRT OK1

W-O1



ROM DATA TRANSFER PROCESSES

In case of [4]

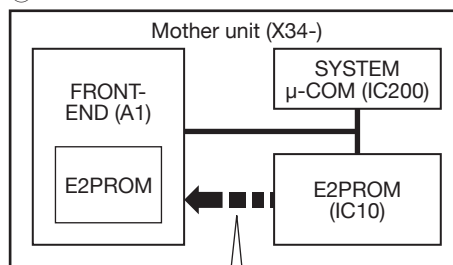


System μ-COM (IC200) copies data in the front-end (A1) into the E2PROM on the mother unit (X34-). (ROM correction and other data)

READ OK R-OK



⑥



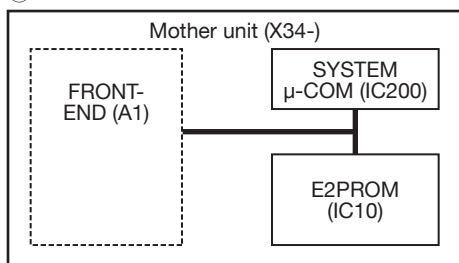
System μ-COM (IC200) copies data on the mother unit (X34-) into E2PROM in the front-end (A1)

WRT OK

W-OK

Remove front-end (A1).

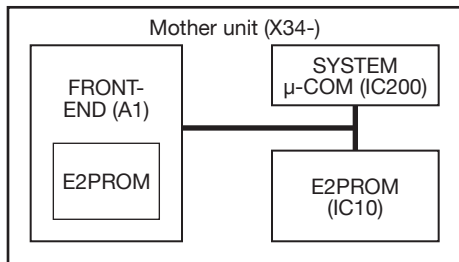
④



Install new front-end (A1).

No ROM correction or other data status.

⑤



PC BOARD (COMPONENT SIDE VIEW)

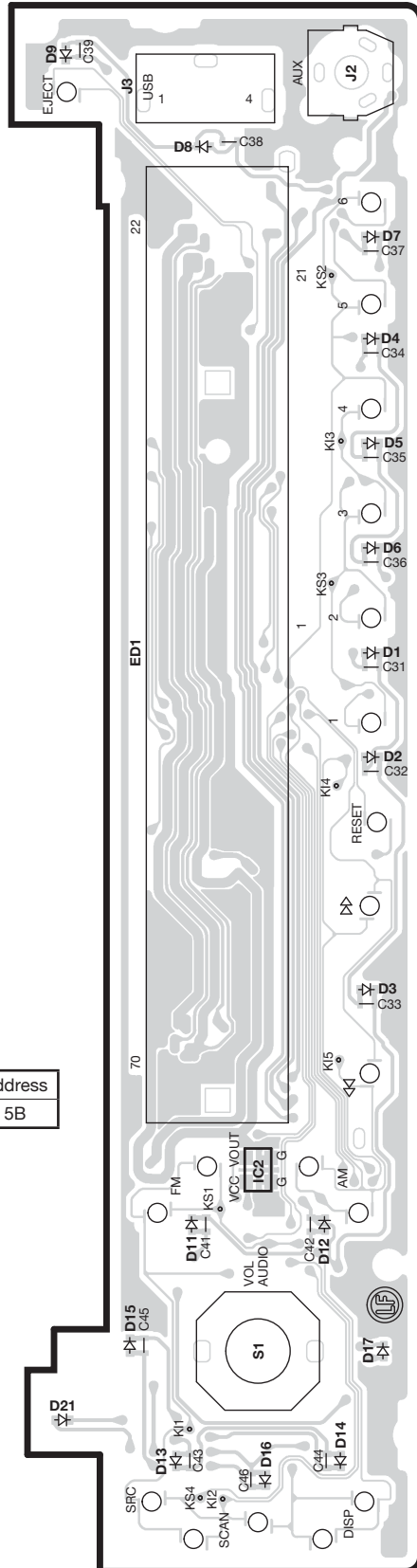
(FOIL SIDE VIEW)

SWITCH UNIT X16-657x-xx (J76-0594-02)

SWITCH UNIT X16-657x-xx (J76-0594-02)

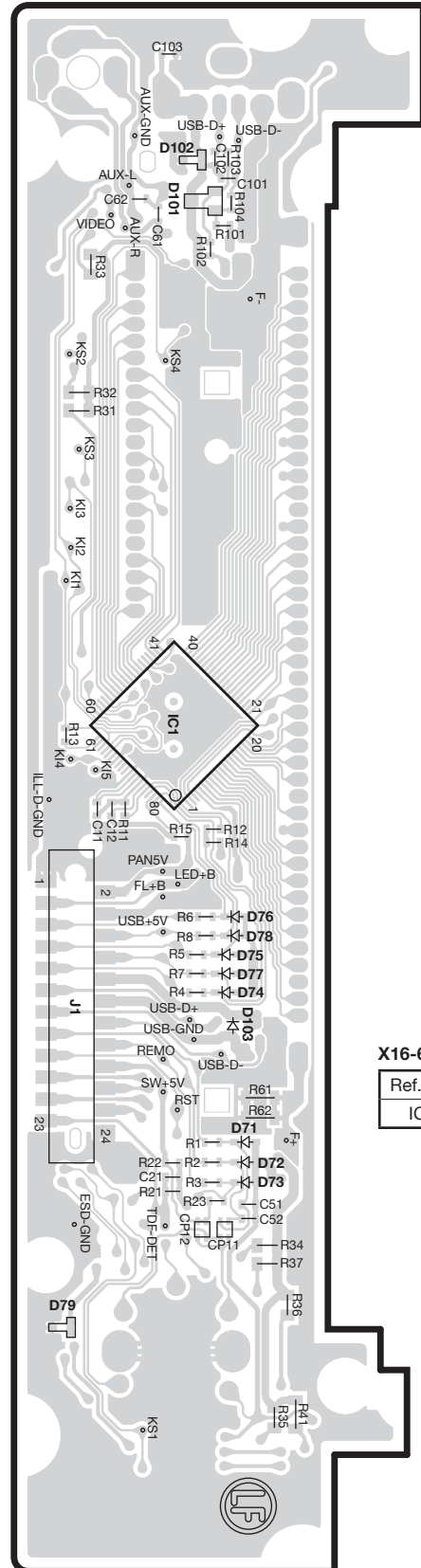
X16-657x-xx

Ref. No.	Address
IC2	5B



X16-657x-xx

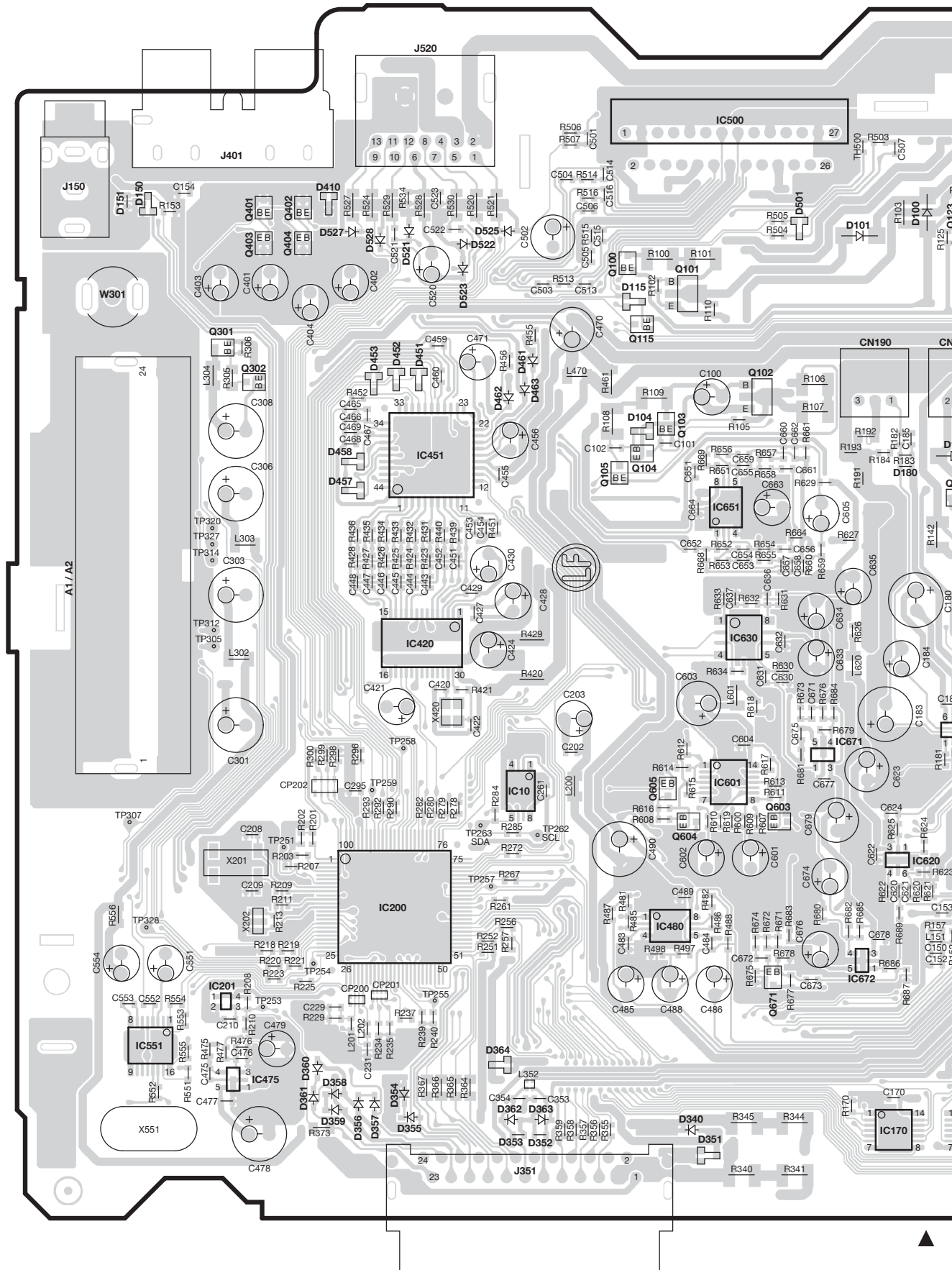
Ref. No.	Address
IC1	4D



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

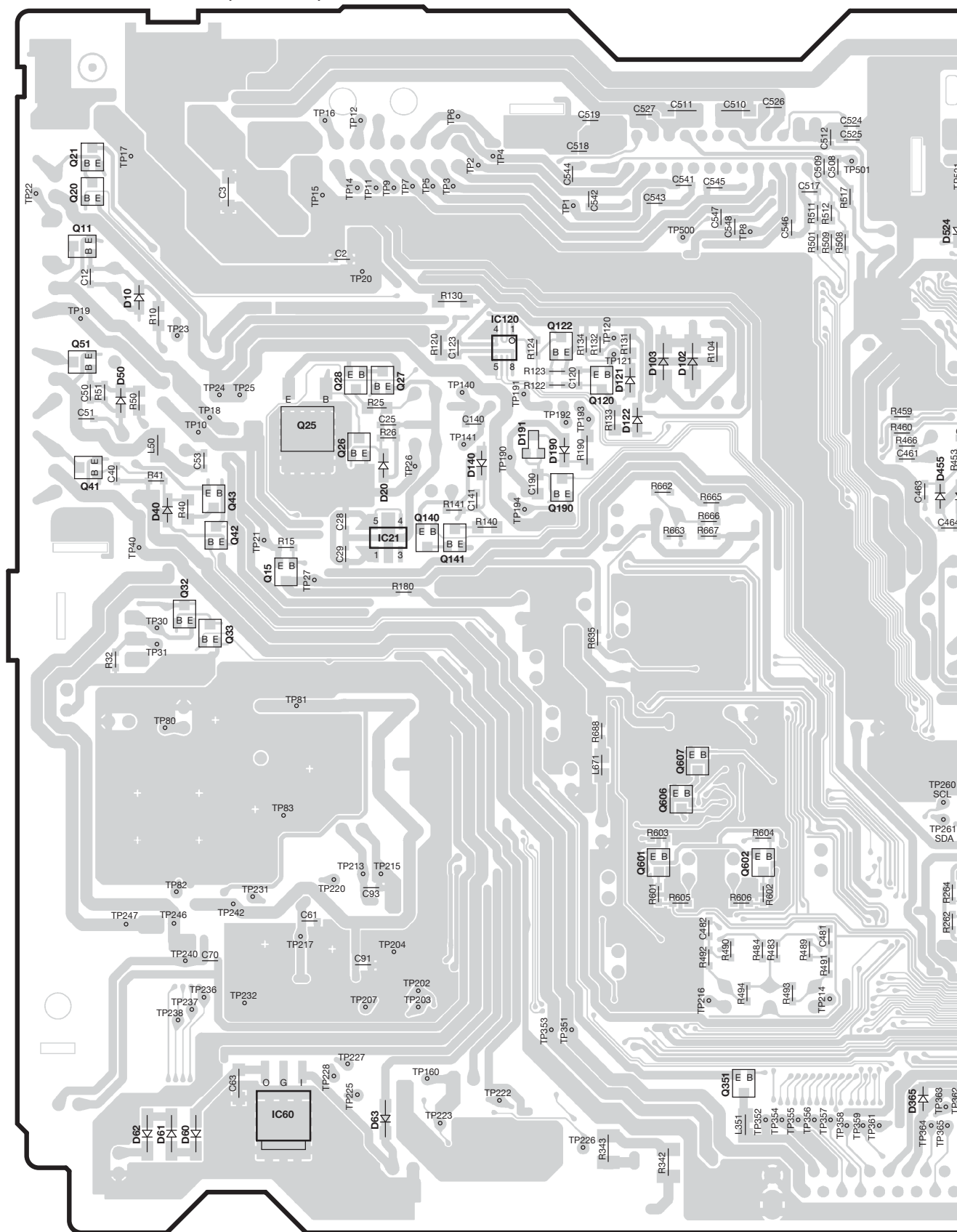
PC BOARD (COMPONENT SIDE VIEW)

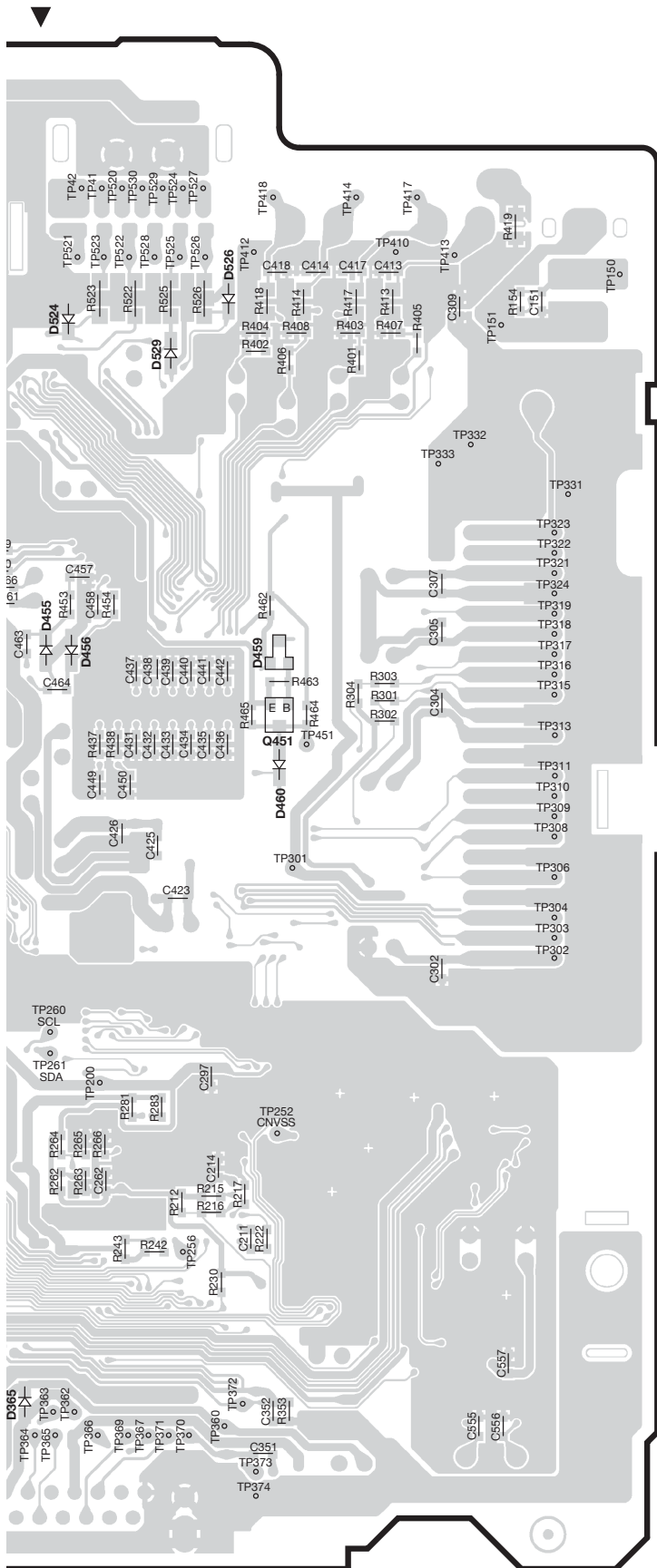
ELECTRIC UNIT X34-637x-xx (J76-0593-12)



PC BOARD (FOIL SIDE VIEW)

ELECTRIC UNIT X34-637x-xx (J76-0593-12)





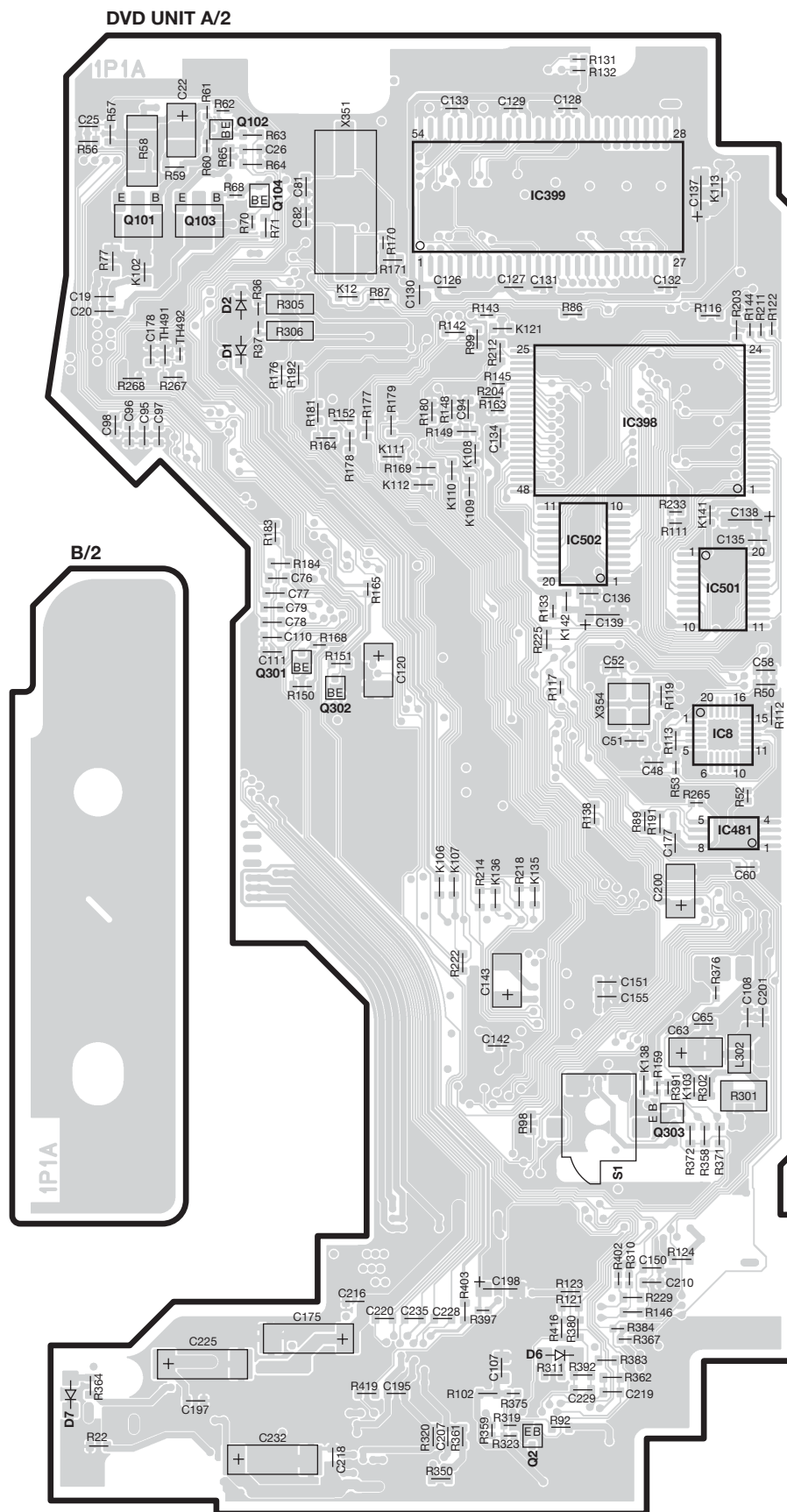
X34-637x-xx

Ref. No.	Address
IC60	6Q
IC120	3R
Q11	2P
Q15	4Q
Q20	2P
Q21	2P
Q25	3Q
Q26	3R
Q27	3R
Q28	3R
Q32	4Q
Q33	4Q
Q41	4P
Q42	4Q
Q43	4Q
Q51	3P
Q120	3S
Q122	3S
Q140	4R
Q141	4R
Q190	4S
Q351	6S
Q451	4V
Q601	5S
Q602	5S
Q606	5S
Q607	5S

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

KDV-415U/5244U/5544U
/MP5042U/MP5343U/MP5443U

PC BOARD (COMPONENT SIDE VIEW)

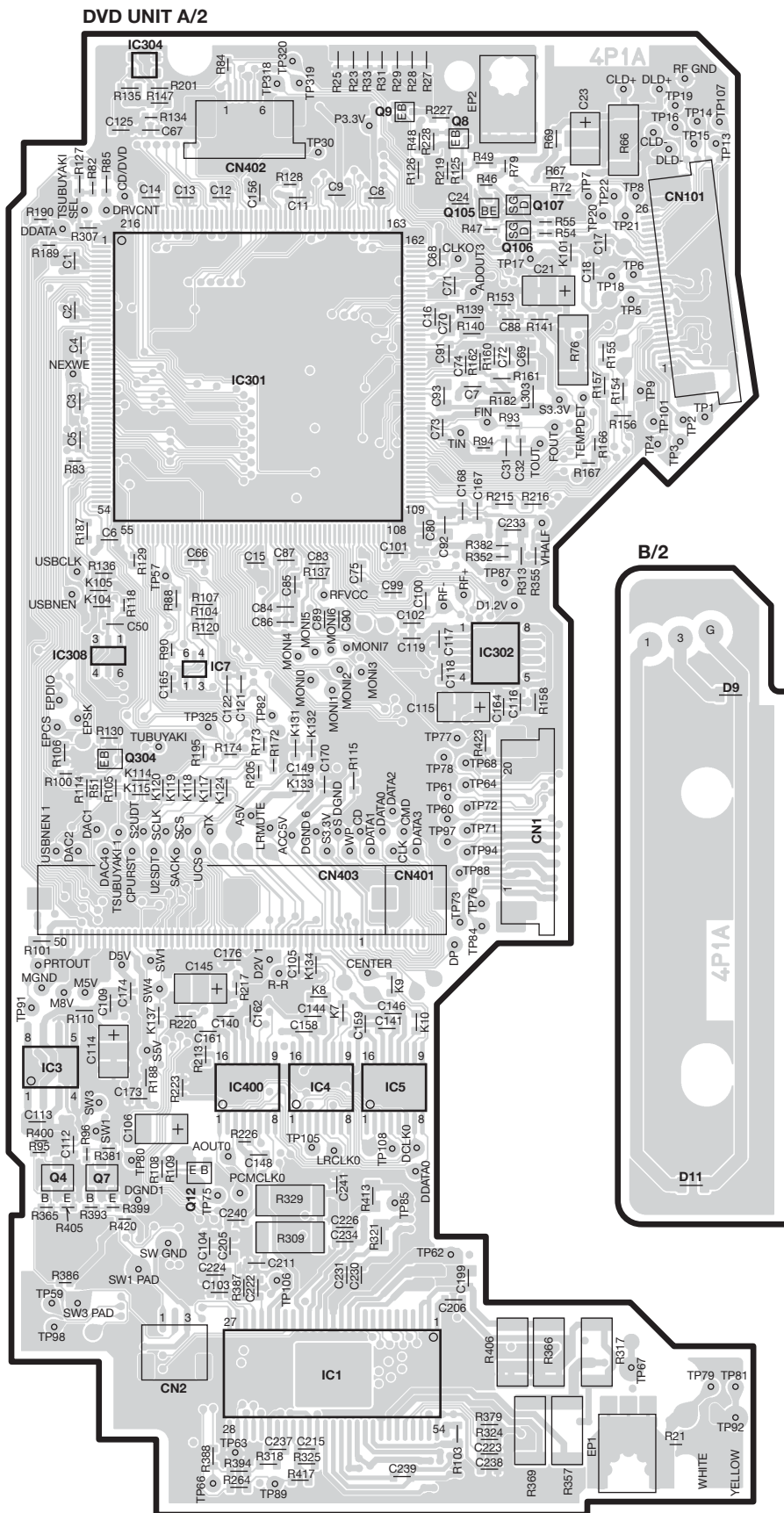


DVD UNIT

Ref. No.	Address
IC8	4AC
IC398	3AC
IC399	2AB
IC481	4AC
IC501	3AC
IC502	3AB
Q2	7AB
Q101	2AA
Q102	2AA
Q103	2AA
Q104	2AA
Q301	4AA
Q302	4AA

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

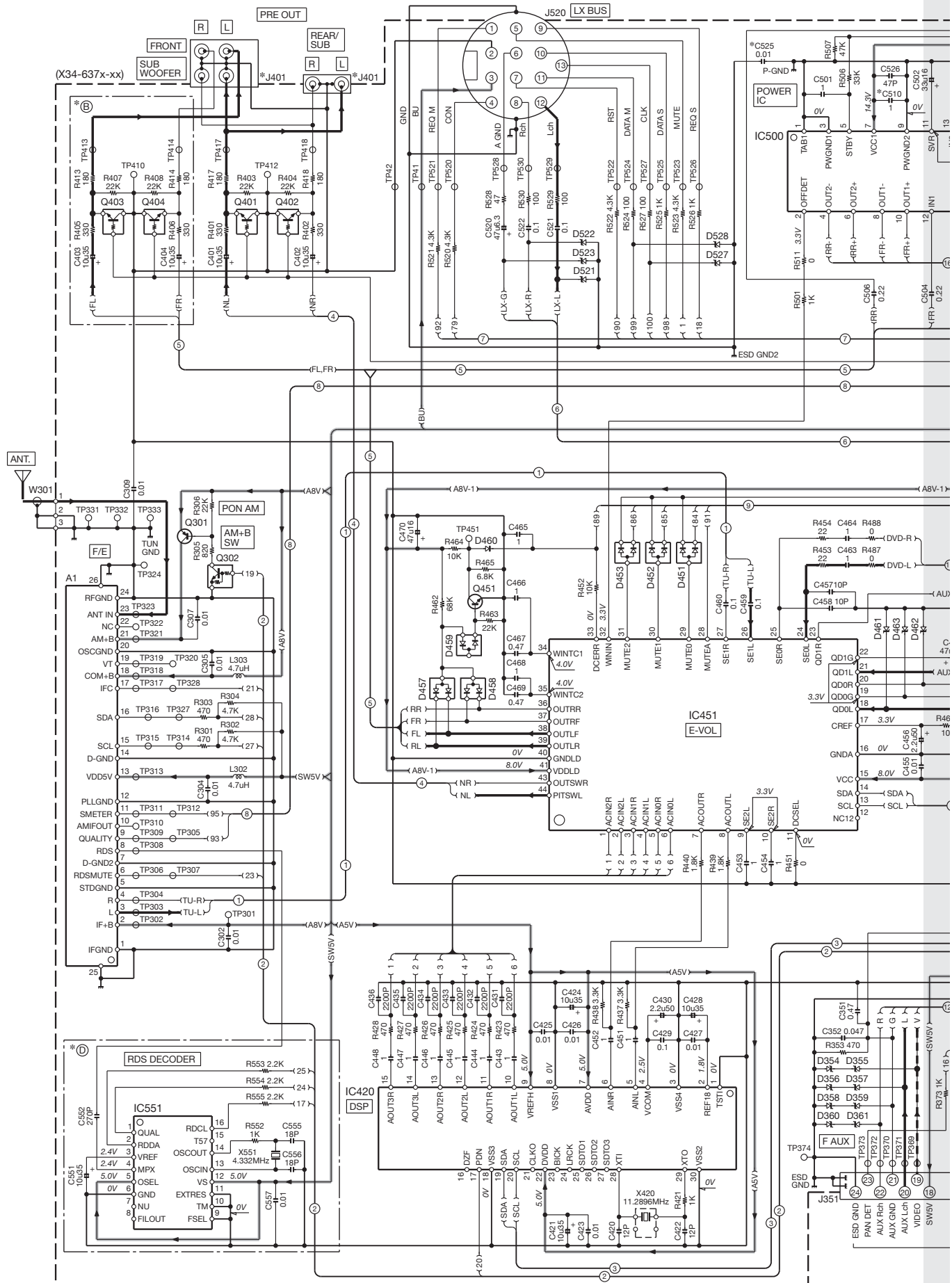
PC BOARD (FOIL SIDE VIEW)

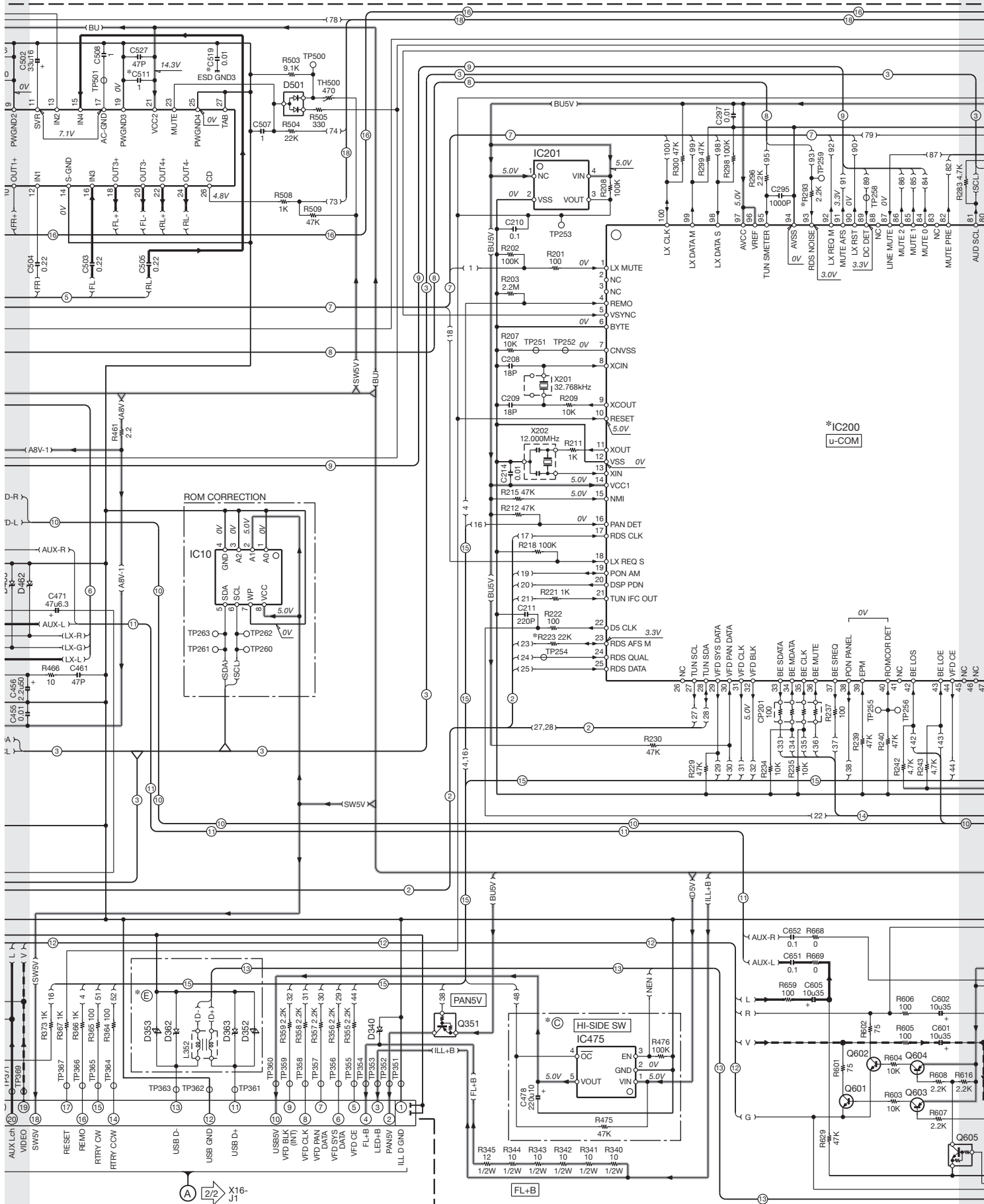


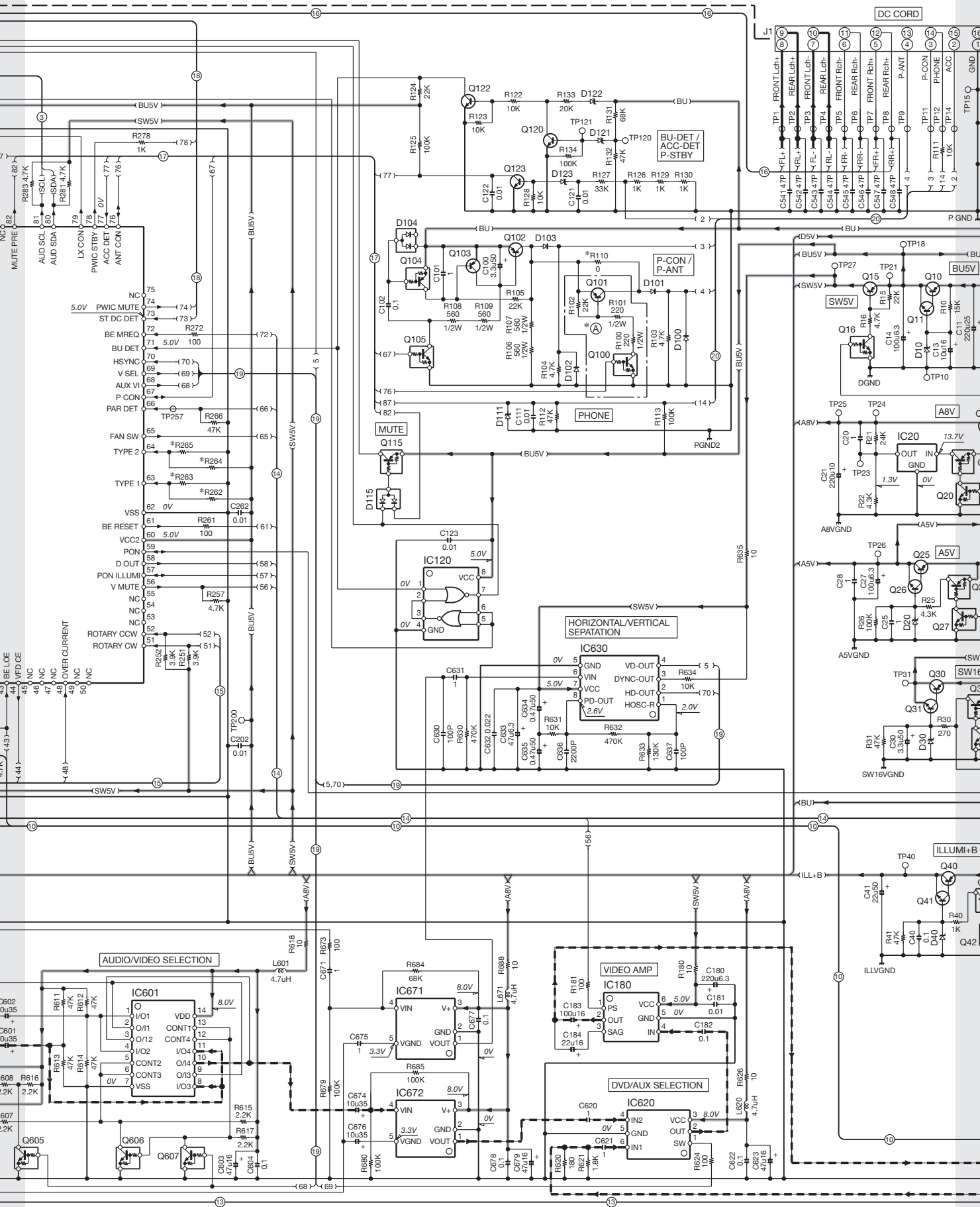
DVD UNIT

Ref. No.	Address
IC1	6AF
IC3	5AE
IC7	4AF
IC301	3AF
IC302	4AG
IC400	5AF
Q4	6AE
Q7	6AE
Q8	2AG
Q9	2AF
Q105	2AG
Q106	2AG
Q107	2AG

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



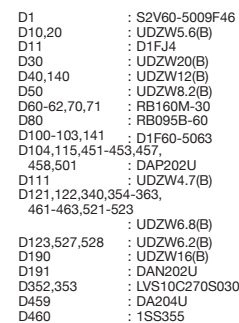




CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

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

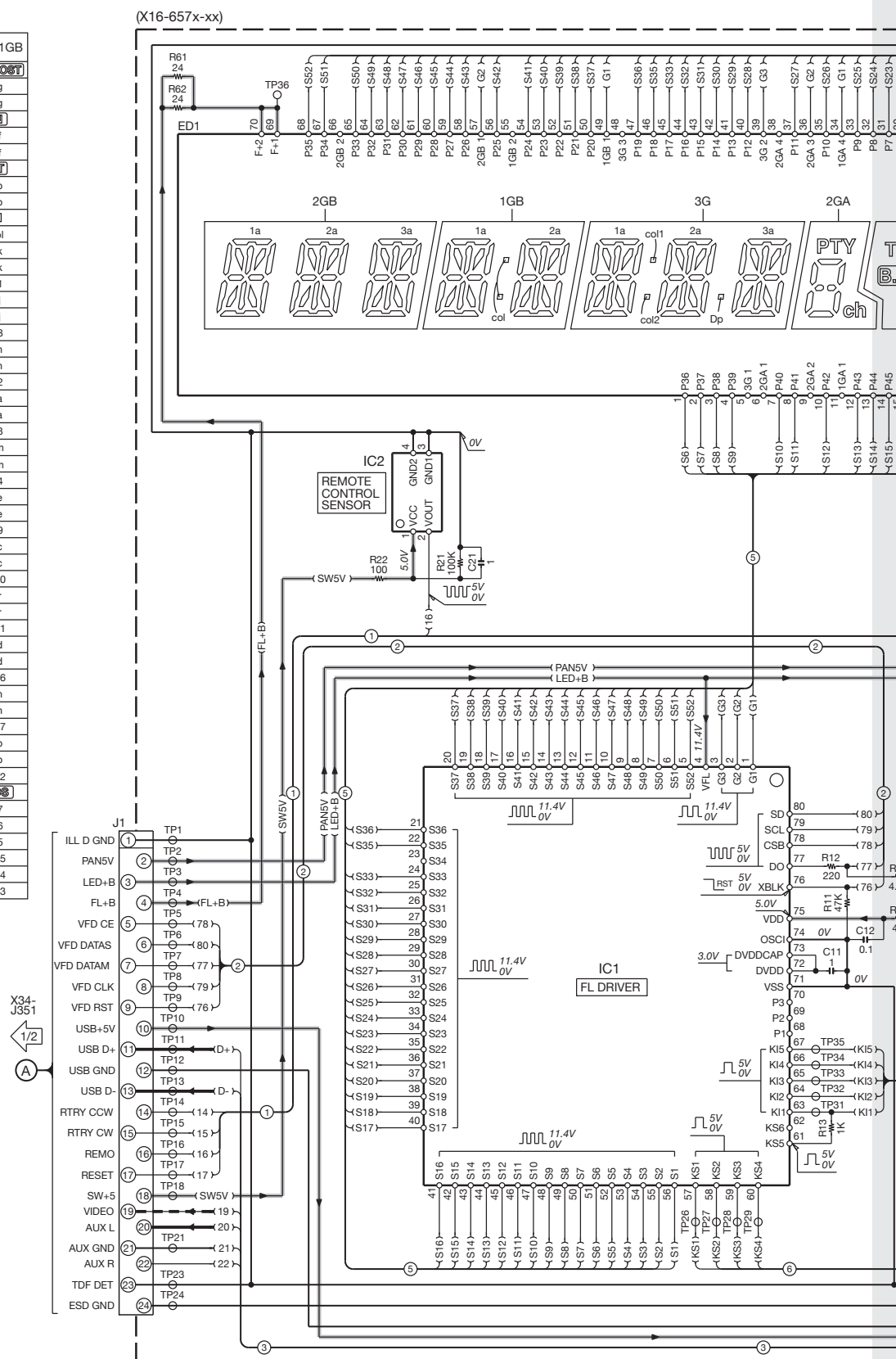
7



- 31

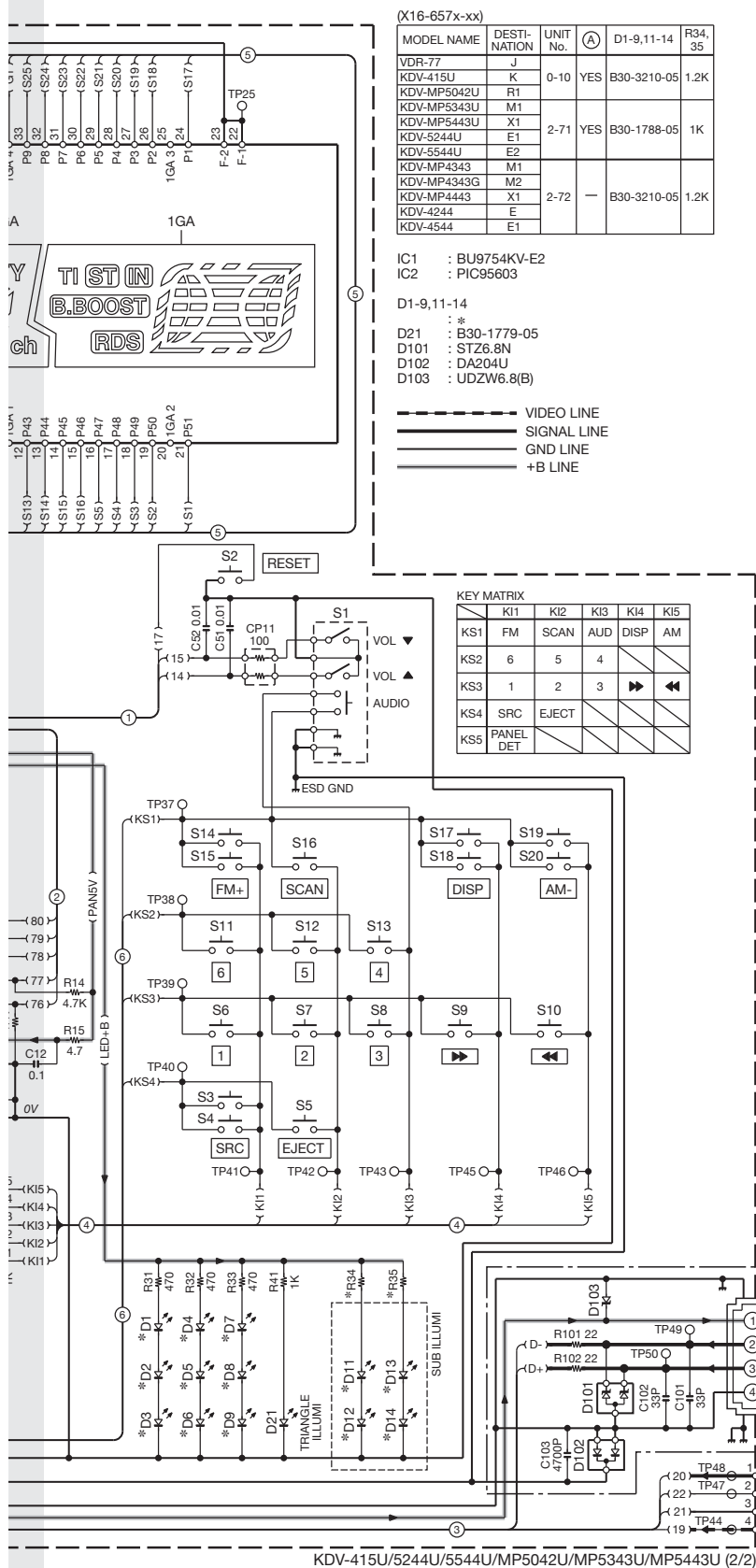
ANODE CONNECTION

PIN CONNECTION			
PIN NAME	3G	2GA,2GB	1GA,1GB
P1	—	a	R.DIOBST
P2	1g	1g	1g
P3	2g	2g	2g
P4	3g	3g	IN
P5	1f	1f	1f
P6	2f	2f	2f
P7	3f	3f	ST
P8	1b	1b	1b
P9	2b	2b	2b
P10	3b	3b	TI
P11	col1	FTV	col
P12	1k	1k	1k
P13	2k	2k	2k
P14	3k	3k	S1
P15	1j	1j	1j
P16	2j	2j	2j
P17	3j	3j	S8
P18	1h	1h	1h
P19	2h	2h	2h
P20	3h	3h	S2
P21	1a	1a	1a
P22	2a	2a	2a
P23	3a	3a	S3
P24	1m	1m	1m
P25	2m	2m	2m
P26	3m	3m	S4
P27	1e	1e	1e
P28	2e	2e	2e
P29	3e	3e	S9
P30	1c	1c	1c
P31	2c	2c	2c
P32	3c	3c	S10
P33	1r	1r	1r
P34	2r	2r	2r
P35	3r	3r	S11
P36	1d	1d	1d
P37	2d	2d	2d
P38	3d	3d	S16
P39	1n	1n	1n
P40	2n	2n	2n
P41	3n	3n	S17
P42	1p	1p	1p
P43	2p	2p	2p
P44	3p	3p	S12
P45	Dp	en	RDS
P46	col2	d	S7
P47	—	c	S6
P48	—	e	S5
P49	—	q	S15
P50	—	b	S14
P51	—	f	S13

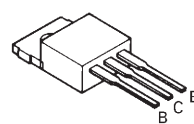


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
 △ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

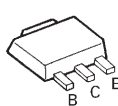
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



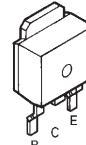
2SB1565

DTC114YUA
DTC143TUA
2SA1576A

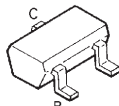
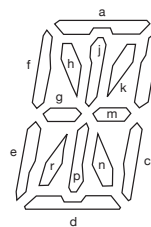
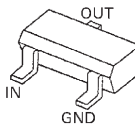
2SB1188



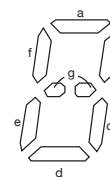
2SB1184



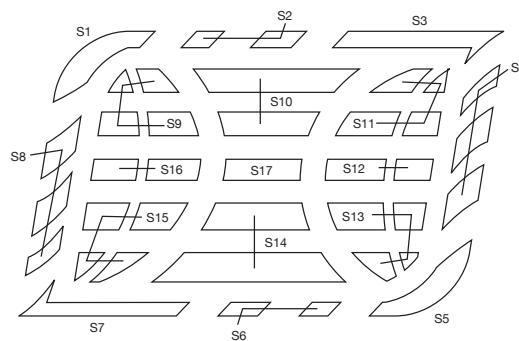
2SC4081

DTA114EUA
DTA124EUA
DTC114EUA
DTC124EUA

(1GB,2GB,3G)



(2GA)



(1GA)

DAN202U



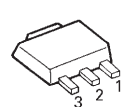
DAP202U

DA204U

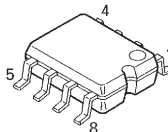
DTA114YUA



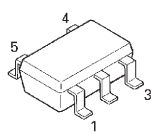
M5237ML-CF0J



BA7046F

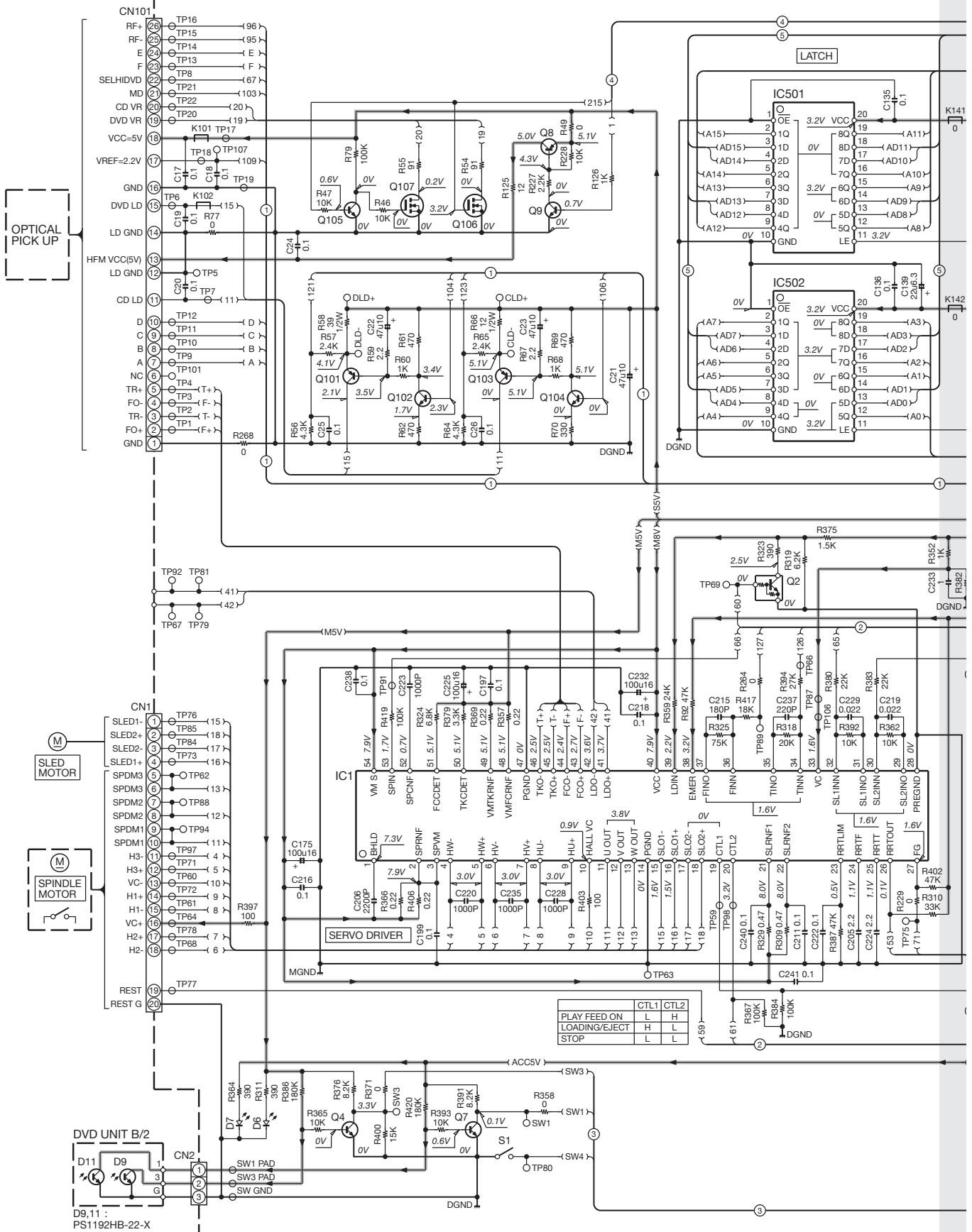


TC7SET08FU-F

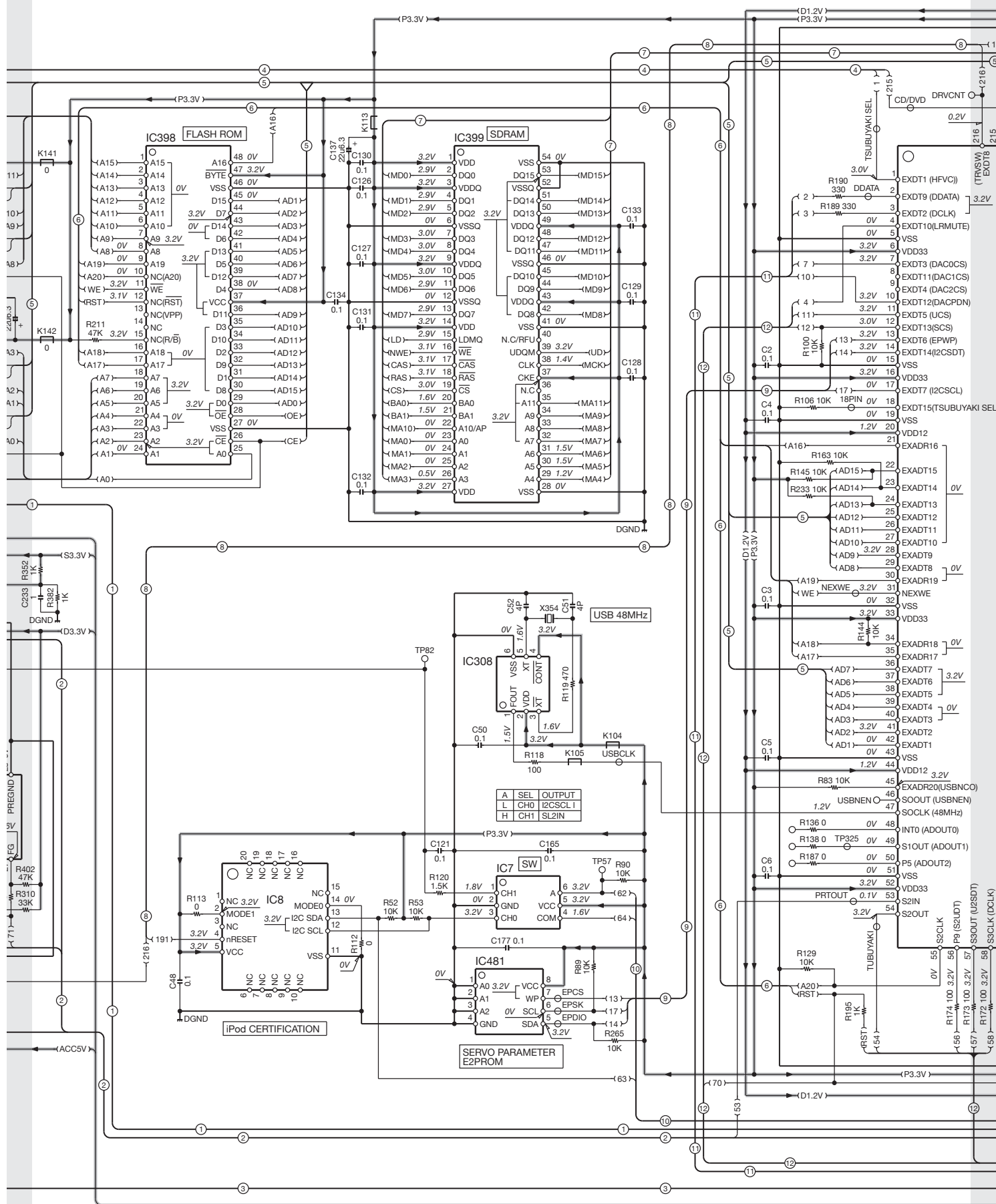


KDV-415U/5244U/5544U /MP5042U/MP5343U/MP5443U

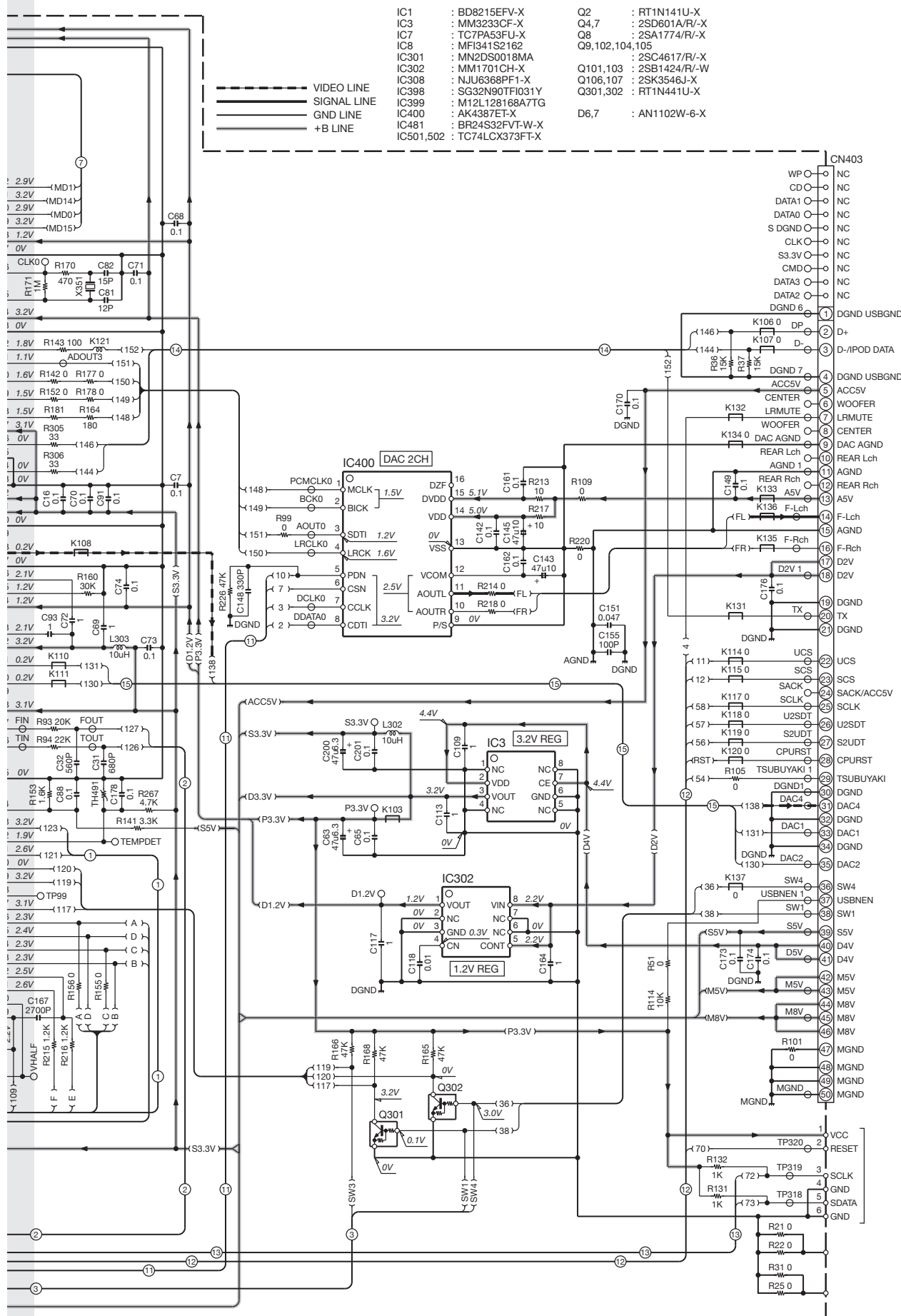
DVD UNIT A/2 (D40-2229-05)



KDV-415U/5244U/5544U /MP5042U/MP5343U/MP5443U



KDV-415U/5244U/5544U /MP5042U/MP5343U/MP5443U

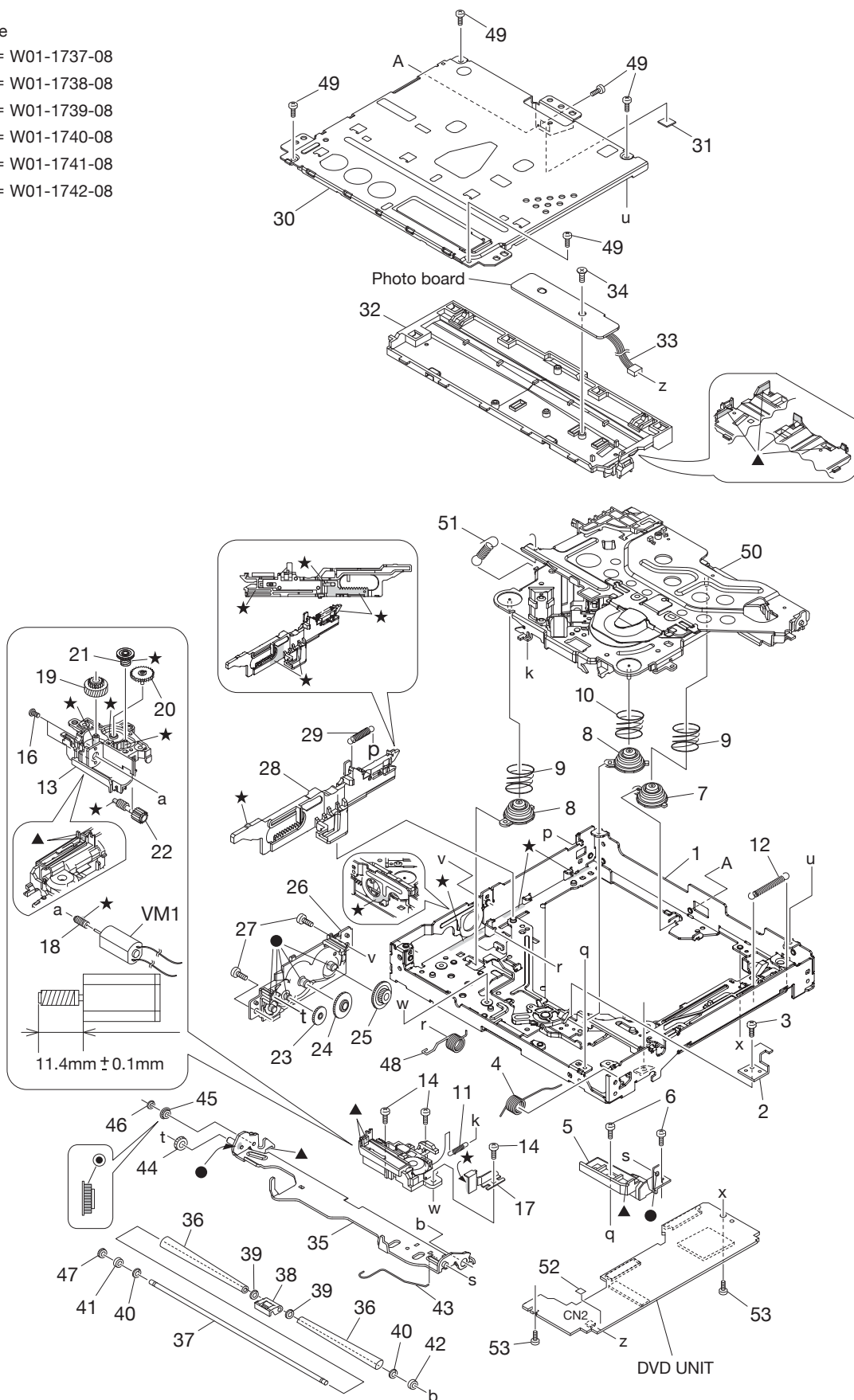


• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW (DVD MECHANISM)

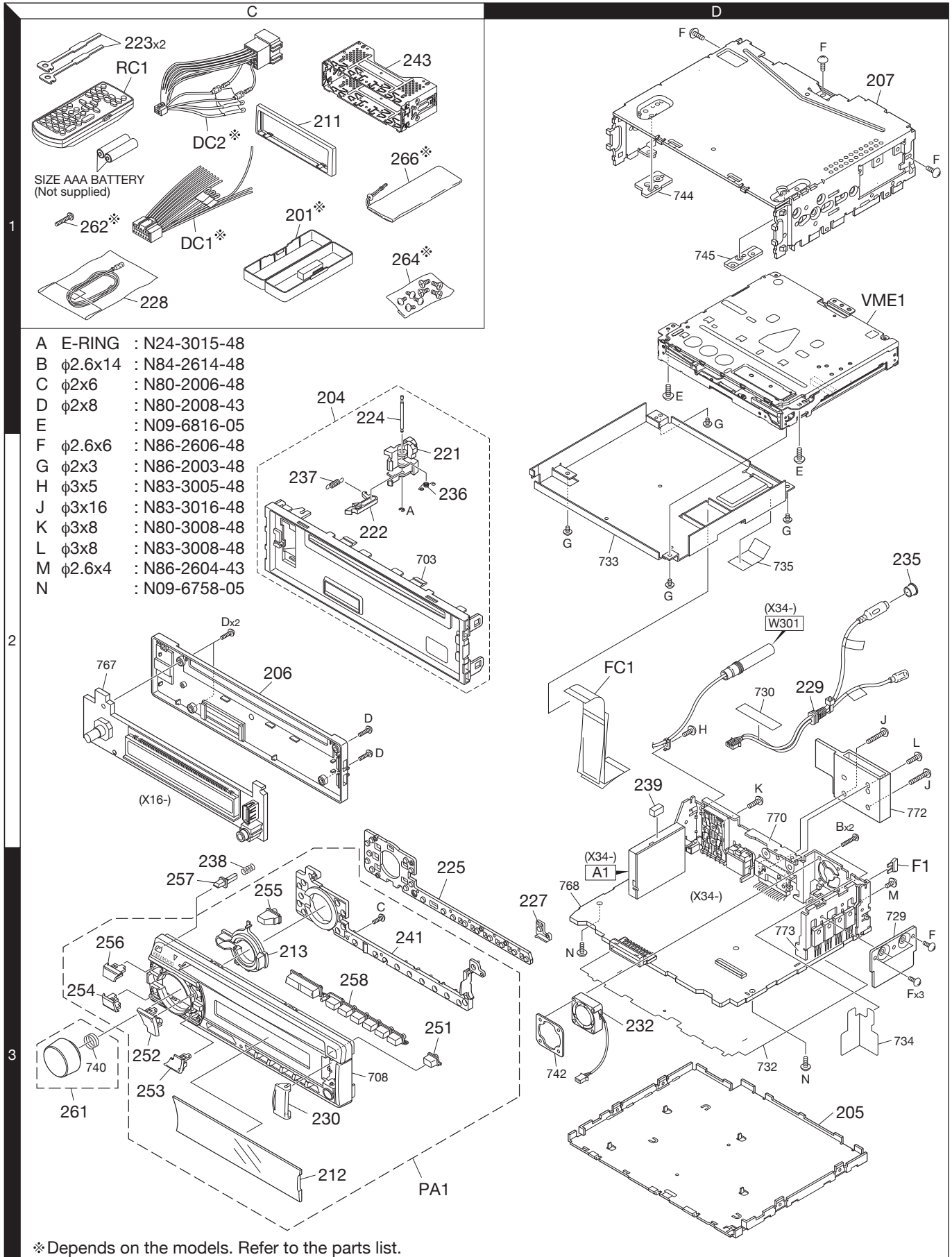
Grease

- ★ = W01-1737-08
- = W01-1738-08
- ▲ = W01-1739-08
- = W01-1740-08
- = W01-1741-08
- △ = W01-1742-08



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

EXPLODED VIEW (UNIT)



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

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
KDV-415U/5244U/5544U/MP5042U/MP5343U/MP5443U					
201	1C		A02-2757-13	PLASTIC CABINET ASSY	M1X1
204	2C	*	A22-3220-13	SUB PANEL ASSY	
205	3D		A40-1365-02	BOTTOM PLATE	
206	2C		A46-1882-01	REAR COVER	
207	1D	*	A52-1116-11	TOP COVER	
PA1	3C	*	A64-4792-12	PANEL ASSY	K
PA1	3C	*	A64-4793-12	PANEL ASSY	R1
PA1	3C	*	A64-4794-12	PANEL ASSY	E1
PA1	3C	*	A64-4795-12	PANEL ASSY	E2
PA1	3C	*	A64-4796-12	PANEL ASSY	M1
PA1	3C	*	A64-4797-12	PANEL ASSY	X1
RC1	1C	*	A70-2101-05	REMOTE CONTROLLER AS (RC-DV350)	
-		*	B64-4427-00	INSTRUCTION MANUAL (ENG.SPA.)	KR1
-		*	B64-4428-00	INSTRUCTION MANUAL (FRE.)	K
-		*	B64-4429-00	INSTRUCTION MANUAL (POR.)	R1
-		*	B64-4430-00	INSTRUCTION MANUAL (ENG.)	M1X1
-		*	B64-4431-00	INSTRUCTION MANUAL (T-CHI.ARA.)	M1
-		*	B64-4433-00	INSTRUCTION MANUAL (ENG.)	E1E2
-		*	B64-4434-00	INSTRUCTION MANUAL (FRE.GER.)	E1
-		*	B64-4435-00	INSTRUCTION MANUAL (DUT.ITA.)	E1
-		*	B64-4436-00	INSTRUCTION MANUAL (SPA.POR.)	E1
-		*	B64-4437-00	INSTRUCTION MANUAL (RUS.UKR.)	E2
211	1C		B07-3270-01	ESCUTCHEON	KR1E1
211	1C		B07-3270-01	ESCUTCHEON	E2
211	1C	*	B07-3317-01	ESCUTCHEON	M1X1
212	3C	*	B10-5247-11	FRONT GLASS	K
212	3C	*	B10-5248-11	FRONT GLASS	R1
212	3C	*	B10-5249-11	FRONT GLASS	E1
212	3C	*	B10-5250-11	FRONT GLASS	E2
212	3C	*	B10-5251-11	FRONT GLASS	M1
212	3C	*	B10-5252-11	FRONT GLASS	X1
213	3C		B19-2513-03	LIGHTING BOARD	
221	1C	*	D10-7057-03	LEVER	
222	2C		D10-4447-03	LEVER	
223	1C		D10-7049-04	LEVER	
224	2C		D21-2329-04	SHAFT	
VME1	1D	*	D40-2229-05	DVD MECHANISM ASSY (XDK4-1)	
225	3C		E29-2128-02	CONDUCTIVE RUBBER	
227	3D		E29-2130-04	CONDUCTIVE RUBBER	
228	1C	*	E30-6920-05	CONNECTING CORD ASSY	
229	2D	*	E30-6887-05	CORD WITH PINPLUG	
△ DC1	1C		E30-6767-05	DC CORD	KR1M1
△ DC1	1C		E30-6767-05	DC CORD	X1
△ DC2	1C		E30-6799-05	DC CORD	E1E2
FC1	2D	*	E39-1087-05	FLAT CABLE (0.5MM PITCH 50PIN)	
230	3C		F07-2204-03	COVER	
232	3D	*	F09-3023-05	FAN	
235	2D		F29-0626-04	INSULATING COVER	
△ F1	3D		F52-0023-05	FUSE (MINI BLADE TYPE) 10A	
236	2C		G01-2987-04	TORSION COIL SPRING	
237	2C		G01-3096-04	EXTENSION SPRING	
238	3C		G01-3244-04	COMPRESSION SPRING	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
239	2D		G11-3786-04	CUSHION	
-		*	H54-4621-03	ITEM CARTON CASE	K
-		*	H54-4622-03	ITEM CARTON CASE	R1
-		*	H54-4623-03	ITEM CARTON CASE	E1
-		*	H54-4624-03	ITEM CARTON CASE	E2
-		*	H54-4625-03	ITEM CARTON CASE	M1
-		*	H54-4626-03	ITEM CARTON CASE	X1
241	3C		J19-7231-01	HOLDER	
243	1C		J22-0789-03	MOUNTING HARDWARE ASSY	
251	3C		K24-4955-04	PUSH KNOB (EJECT)	
252	3C		K24-4956-03	PUSH KNOB (FM)	
253	3C		K24-4957-03	PUSH KNOB (AM)	
254	3C		K24-4958-03	PUSH KNOB (DISP)	
255	3C		K24-4959-04	PUSH KNOB (SERCH)	
256	3C		K24-4960-03	PUSH KNOB (SRC)	
257	3C		K24-4961-04	PUSH KNOB (RELEASE)	
258	3C		K25-1937-02	PUSH KNOB (PRESET)	
261	3C		K28-0337-04	KNOB ASSY (VOL)	
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	KR1M1
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	X1
264	1C		N99-1757-15	SCREW SET	KR1M1
264	1C		N99-1757-15	SCREW SET	X1
A	2C		N24-3015-48	E TYPE RETAINING RING	
B	2D		N84-2614-48	PAN HEAD TAPTITE SCREW	
C	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
D	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
E	1D	*	N09-6816-05	BINDING HEAD TAPTITE SCREW	
F	1D		N86-2606-48	BINDING HEAD TAPTITE SCREW	
G	2D	*	N86-2003-48	BINDING HEAD TAPTITE SCREW	
N	3D		N09-6758-05	TAPTITE SCREW	
266	1C		W01-1710-05	CARRYING CASE	KR1E1
266	1C		W01-1710-05	CARRYING CASE	E2
SWITCH UNIT (X16-657x-xx)					
D1 -9			B30-1788-05	LED (1608 WHITE)	E1E2M1
D1 -9			B30-1788-05	LED (1608 WHITE)	X1
D1 -9			B30-3210-05	LED (1608 BLUE)	KR1
D11 -14			B30-1788-05	LED (1608 WHITE)	E1E2M1
D11 -14			B30-1788-05	LED (1608 WHITE)	X1
D11 -14			B30-3210-05	LED (1608 BLUE)	KR1
D21			B30-1779-05	LED (1608_SR)	
C11			CK73GB1A105K	CHIP C 1.0UF K	
C12			CK73GB1C104K	CHIP C 0.10UF K	
C21			CK73GB1A105K	CHIP C 1.0UF K	
C51 ,52			CK73GB1H103K	CHIP C 0.010UF K	
C101,102			CC73GCH1H330J	CHIP C 33PF J	
C103			CK73GB1H472K	CHIP C 4700PF K	
J1		*	E59-0855-05	RECTANGULAR PLUG	
J2			E11-0664-05	3.5D PHONE JACK (NI,4PIN)	
J3			E58-1109-05	RECTANGULAR RECEPTACLE	
CP11			RK74GA1J101J	CHIP-COM 100 J 1/16W	

E1 : KDV-5244U **E2** : KDV-5544U (Europe)
K : KDV-415U (North America) **R1** : KDV-MP5042U (Latin America)
X1 : KDV-MP5443U (Australia) **M1** : KDV-MP5343U (Other Areas)

△Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-657x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R11			RK73GB2A473J	CHIP R 47K J 1/10W	
R12			RK73GB2A221J	CHIP R 220 J 1/10W	
R13			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R14			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R15			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R21			RK73GB2A104J	CHIP R 100K J 1/10W	
R22			RK73GB2A101J	CHIP R 100 J 1/10W	
R31 -33			RK73FB2B471J	CHIP R 470 J 1/8W	
R34 ,35			RK73FB2B102J	CHIP R 1.0K J 1/8W	E1E2M1
R34 ,35			RK73FB2B102J	CHIP R 1.0K J 1/8W	X1
R34 ,35			RK73FB2B122J	CHIP R 1.2K J 1/8W	KR1
R41			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R61 ,62			RK73EB2E240J	CHIP R 24 J 1/4W	
R101,102			RK73GB2A220J	CHIP R 22 J 1/10W	
S1			T99-0484-05	ROTARY ENCODER	
D101			STZ6.8N	ZENER DIODE	
D102			DA204U	DIODE	
D103			UDZW6.8(B)	ZENER DIODE	
ED1			3-BT-262N	FLUORESCENT INDICATOR TUBE	
IC1			BU9754KV-E2	MOS-IC	
IC2			PIC95603	ANALOGUE IC	
ELECTRIC UNIT (X34-637x-xx)					
C1		*	C90-6907-05	ELECTRO 3300UF 16WV	
C2			CK73GB1H103K	CHIP C 0.010UF K	
C10 ,11			C90-6851-05	ELECTRO 220UF 25WV	
C13			CD04BA1C100M	ELECTRO 10UF 16WV	
C14			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C20			CK73GB1A105K	CHIP C 1.0UF K	
C21			CD04AY1A221M	ELECTRO 220UF 10WV	
C25			CK73GB1A105K	CHIP C 1.0UF K	
C27			CD04AS0J101M	ELECTRO 100UF 6.3WV	
C28			CK73GB1A105K	CHIP C 1.0UF K	
C30			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C40			CK73GB1C104K	CHIP C 0.10UF K	
C41			CD04AY1H220M	ELECTRO 22UF 50WV	
C50			CK73GB1A105K	CHIP C 1.0UF K	
C52			CD04AJ1C101M	ELECTRO 100UF 16WV	
C53			CK73GB1H103K	CHIP C 0.010UF K	
C61			CK73GB1C473K	CHIP C 0.047UF K	
C62			CD04BJ0J331M	ELECTRO 330UF 6.3WV	
C63			CK73EB0J226K	CHIP C 22UF K	
C70			CK73GB1C473K	CHIP C 0.047UF K	
C71			CD04BJ0J331M	ELECTRO 330UF 6.3WV	
C80 ,81			CD04BK1E101M	ELECTRO 100UF 25WV	
C82			CK73GB1C104K	CHIP C 0.10UF K	
C83			CK73GB1C473K	CHIP C 0.047UF K	
C84 ,85			CD04BK1A221M	ELECTRO 220UF 10WV	
C87			CK73EB1E105K	CHIP C 1.0UF K	
C90			CD04AS0J221M	ELECTRO 220UF 6.3WV	
C91			CK73GB1C473K	CHIP C 0.047UF K	
C92			CD04AS0J221M	ELECTRO 220UF 6.3WV	
C93			CK73GB1H102K	CHIP C 1000PF K	
C94			CD04AS1C470M	ELECTRO 47UF 16WV	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C100			CD04AS1H3R3M	ELECTRO 3.3UF 50WV	
C101			CK73GB1A105K	CHIP C 1.0UF K	
C102			CK73GB1H104K	CHIP C 0.10UF K	
C111			CK73GB1H103K	CHIP C 0.010UF K	
C121-123			CK73GB1H103K	CHIP C 0.010UF K	
C140,141			CK73GB1C104K	CHIP C 0.10UF K	
C142			CD04AS1V100M	ELECTRO 10UF 35WV	
C150			CK73GB1C104K	CHIP C 0.10UF K	
C151,152			CC73GCH1H101J	CHIP C 100PF J	M1X1
C152			CC73GCH1H101J	CHIP C 100PF J	KR1E1
C152			CC73GCH1H101J	CHIP C 100PF J	E2
C153			CK73GB1H102K	CHIP C 1000PF K	KR1E1
C153			CK73GB1H102K	CHIP C 1000PF K	E2
C153,154			CK73GB1H102K	CHIP C 1000PF K	M1X1
C160			CK73GB1A105K	CHIP C 1.0UF K	
C161			CK73GB1H103K	CHIP C 0.010UF K	
C162			CK73GB1A105K	CHIP C 1.0UF K	
C163			CD04AS0J470M	ELECTRO 47UF 6.3WV	
C170,171			CK73GB1H103K	CHIP C 0.010UF K	
C180			CD04AS0J221M	ELECTRO 220UF 6.3WV	
C181			CK73GB1H103K	CHIP C 0.010UF K	
C182			CK73GB1C104K	CHIP C 0.10UF K	
C183			CD04AS1C101M	ELECTRO 100UF 16WV	
C184			CD04AS1C220M	ELECTRO 22UF 16WV	
C190			CK73FB1C105K	CHIP C 1.0UF K	
C202			CK73GB1H103K	CHIP C 0.010UF K	
C208,209			CC73GCH1H180J	CHIP C 18PF J	
C210			CK73GB1C104K	CHIP C 0.10UF K	
C211			CC73GCH1H221J	CHIP C 220PF J	
C214			CK73GB1H103K	CHIP C 0.010UF K	
C262			CK73GB1H103K	CHIP C 0.010UF K	
C295			CK73GB1H102K	CHIP C 1000PF K	
C297			CK73GB1H103K	CHIP C 0.010UF K	
C302			CK73GB1H103K	CHIP C 0.010UF K	
C304,305			CK73GB1H103K	CHIP C 0.010UF K	
C307			CK73GB1H103K	CHIP C 0.010UF K	
C309			CK73GB1H103K	CHIP C 0.010UF K	
C351			CK73GB1A474K	CHIP C 0.47UF K	
C352			CK73GB1C473K	CHIP C 0.047UF K	
C401-404			CD04AS1V100M	ELECTRO 10UF 35WV	
C420			CC73GCH1H120J	CHIP C 12PF J	
C421			CD04AS1V100M	ELECTRO 10UF 35WV	
C422			CC73GCH1H120J	CHIP C 12PF J	
C423			CK73GB1H103K	CHIP C 0.010UF K	
C424			CD04AS1V100M	ELECTRO 10UF 35WV	
C425-427			CK73GB1H103K	CHIP C 0.010UF K	
C428			CD04AS1V100M	ELECTRO 10UF 35WV	
C429			CK73GB1C104K	CHIP C 0.10UF K	
C430			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C431-436			CK73GB1H222K	CHIP C 2200PF K	
C443-448			CK73GB1A105K	CHIP C 1.0UF K	
C451-454			CK73GB1A105K	CHIP C 1.0UF K	
C455			CK73GB1H103K	CHIP C 0.010UF K	
C456			CD04AS1H2R2M	ELECTRO 2.2UF 50WV	
C457,458			CC73GCH1H100D	CHIP C 10PF D	

E1 : KDV-5244U E2 : KDV-5544U (Europe)
K : KDV-415U (North America) R1 : KDV-MP5042U (Latin America)
X1 : KDV-MP5443U (Australia) M1 : KDV-MP5343U (Other Areas)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-637x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C459,460 C461 C463-466 C467 C468			CK73GB1C104K CC73GCH1H470J CK73GB1A105K CK73GB1A474K CK73GB1A105K	CHIP C 0.10UF K CHIP C 47PF J CHIP C 1.0UF K CHIP C 0.47UF K CHIP C 1.0UF K	
C469 C470 C471 C478 C501			CK73GB1A474K CD04AS1C470M CD04AS0J470M CD04BK1A221M CK73GB1A105K	CHIP C 0.47UF K ELECTRO 47UF 16WV ELECTRO 47UF 6.3WV ELECTRO 220UF 10WV CHIP C 1.0UF K	
C502 C503-506 C507,508 C510,511 C519			CD04AS1C330M CK73GB1A224K CK73GB1A105K C93-0059-05 CK73GB1H103K	ELECTRO 33UF 16WV CHIP C 0.22UF K CHIP C 1.0UF K CERAMIC 1UF K CHIP C 0.010UF K	E1E2 E1E2
C520 C521,522 C525 C526,527 C541-548			CD04AS0J470M CK73GB1C104K CK73GB1H103K CC73GCH1H470J CC73GCH1H470J	ELECTRO 47UF 6.3WV CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 47PF J CHIP C 47PF J	E1E2
C551 C552 C555,556 C557 C601,602			CD04AS1V100M CC73GCH1H271J CC73GCH1H180J CK73GB1H103K CD04AS1V100M	ELECTRO 10UF 35WV CHIP C 270PF J CHIP C 18PF J CHIP C 0.010UF K ELECTRO 10UF 35WV	E1E2 E1E2 E1E2 E1E2
C603 C604 C605 C620,621 C622			CD04AS1C470M CK73GB1C104K CD04AS1V100M CK73GB1A105K CK73GB1C104K	ELECTRO 47UF 16WV CHIP C 0.10UF K ELECTRO 10UF 35WV CHIP C 1.0UF K CHIP C 0.10UF K	
C623 C630 C631 C632 C633			CD04AS1C470M CC73GCH1H101J CK73GB1A105K CK73GB1H223K CD04AS0J470M	ELECTRO 47UF 16WV CHIP C 100PF J CHIP C 1.0UF K CHIP C 0.022UF K ELECTRO 47UF 6.3WV	
C634,635 C636 C637 C651,652 C671			CD04AS1HR47M CK73GB1H222K CC73GCH1H101J CK73GB1C104K CK73GB1A105K	ELECTRO 0.47UF 50WV CHIP C 2200PF J CHIP C 100PF K CHIP C 0.10UF K CHIP C 1.0UF K	
C674 C675 C676 C677,678 C679			CD04AS1V100M CK73GB1A105K CD04AS1V100M CK73GB1C104K CD04AS1C470M	ELECTRO 10UF 35WV CHIP C 1.0UF K ELECTRO 10UF 35WV CHIP C 0.10UF K ELECTRO 47UF 16WV	
CN1 CN140 CN190 J1 J150			E41-2114-15 E41-1699-05 E41-1700-05 E58-0991-05 E11-0625-05	FLAT CABLE CONNECTOR PIN ASSY PIN ASSY RECTANGULAR RECEPTACLE PHONE JACK (LGY6502-0900)	
J351 J401 J520 W301			E58-1095-05 E63-0961-05 E56-0855-05 E30-6438-05	RECTANGULAR RECEPTACLE PIN JACK CYLINDRICAL RECEPTACLE CORD WITH PLUG (FM/AM ANT)	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
L1 L80 L151 L302,303 L352			L33-2436-05 L33-2363-05 L92-0076-05 L41-4795-33 L92-0616-05	CHOKE COIL ASSY CHOKE COIL CHIP FERRITE SMALL FIXED INDUCTOR (4.7U) CHIP FERRITE	M1X1
L601 L620 L671 X201 X202			L41-4795-33 L41-4795-33 L41-4795-33 L77-2921-15 L78-0872-05	SMALL FIXED INDUCTOR (4.7U) SMALL FIXED INDUCTOR (4.7U) SMALL FIXED INDUCTOR (4.7U) CRYSTAL RESONATOR(32.768KHZ, 1 RESONATOR (12MHZ)	
X420 X551			L77-3810-05 L77-2002-05	CRYSTAL RESONATOR (11.2896MHZ) CRYSTAL RESONATOR	E1E2
H J K L M	2D 2D 2D 2D 3D		N83-3005-48 N83-3016-48 N80-3008-48 N83-3008-48 N86-2604-43	PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW	
CP201 R10 R15 R16 R20			RK74HB1J101J RK73FB2B153J RK73GB2A223J RK73GB2A472J RK73FB2B221J	CHIP-COM 100 J 1/16W CHIP R 15K J 1/8W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W CHIP R 220 J 1/8W	
R21 R22 R25 R26 R30			RK73GH2A243D RK73GH2A432D RK73FB2B432J RK73GB2A104J RK73FB2B271J	CHIP R 24K D 1/10W CHIP R 4.3K D 1/10W CHIP R 4.3K J 1/8W CHIP R 100K J 1/10W CHIP R 270 J 1/8W	
R31 R40 R41 R50 R80			RK73GB2A473J RK73FB2B102J RK73GB2A473J RK73FB2B911J RK73GH2A134D	CHIP R 47K J 1/10W CHIP R 1.0K J 1/8W CHIP R 47K J 1/10W CHIP R 910 J 1/8W CHIP R 130K D 1/10W	
R81 R82 R83 R84 R100,101			RK73GB2A563J RK73GH2A103D RK73GH2A393D RK73GH2A242D RK73PB2H221J	CHIP R 56K J 1/10W CHIP R 10K D 1/10W CHIP R 39K D 1/10W CHIP R 2.4K D 1/10W CHIP R 220 J 1/2W	KR1M1
R100,101 R102 R102 R103 R104			RK73PB2H221J RK73GB2A223J RK73GB2A223J RK73EB2E472J RK73FB2B472J	CHIP R 220 J 1/2W CHIP R 22K J 1/10W CHIP R 22K J 1/10W CHIP R 4.7K J 1/4W CHIP R 4.7K J 1/8W	X1 KR1M1 X1
R105 R106-109 R110 R111 R112			RK73GB2A223J RK73PB2H561J RK73GB2A000J RK73EB2E103J RK73GB2A473J	CHIP R 22K J 1/10W CHIP R 560 J 1/2W CHIP R 0.0 J 1/10W CHIP R 10K J 1/4W CHIP R 47K J 1/10W	E1E2
R113 R122,123 R124 R125 R126			RK73GB2A104J RK73GB2A103J RK73GB2A223J RK73GB2A104J RK73EB2E102J	CHIP R 100K J 1/10W CHIP R 10K J 1/10W CHIP R 22K J 1/10W CHIP R 100K J 1/10W CHIP R 1.0K J 1/4W	
R127 R128			RK73EB2E333J RK73GB2A103J	CHIP R 33K J 1/4W CHIP R 10K J 1/10W	

E1 : KDV-5244U E2 : KDV-5544U (Europe)
K : KDV-415U (North America) R1 : KDV-MP5042U (Latin America)
X1 : KDV-MP5443U (Australia) M1 : KDV-MP5343U (Other Areas)

△Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-637x-xx)

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
R129,130			RK73EB2E102J	CHIP R 1.0K J 1/4W		R283			RK73GB2A472J	CHIP R 4.7K J 1/10W	E1E2
R131			RK73FB2B683J	CHIP R 68K J 1/8W		R293			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R132			RK73GB2A473J	CHIP R 47K J 1/10W		R296			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R133			RK73FB2B203J	CHIP R 20K J 1/8W		R298			RK73GB2A104J	CHIP R 100K J 1/10W	
R134			RK73GB2A104J	CHIP R 100K J 1/10W		R299,300			RK73GB2A473J	CHIP R 47K J 1/10W	
R140			RK73FB2B182J	CHIP R 1.8K J 1/8W		R301			RK73GB2A471J	CHIP R 470 J 1/10W	
R141			RK73GB2A104J	CHIP R 100K J 1/10W		R302			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R142			RK73PB2H1R0J	CHIP R 1.0 J 1/2W		R303			RK73GB2A471J	CHIP R 470 J 1/10W	
R150,151			RK73GB2A101J	CHIP R 100 J 1/10W		R304			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R152			RK73GB2A331J	CHIP R 330 J 1/10W		R305			RK73FB2B821J	CHIP R 820 J 1/8W	
R153			RK73GB2A221J	CHIP R 220 J 1/10W		R306			RK73GB2A223J	CHIP R 22K J 1/10W	
R154			RK73GB2A750J	CHIP R 75 J 1/10W		R340-344			RK73PB2H100J	CHIP R 10 J 1/2W	
R156			RK73GB2A000J	CHIP R 0.0 J 1/10W	M1X1	R345			RK73PB2H120J	CHIP R 12 J 1/2W	
R156,157			RK73GB2A000J	CHIP R 0.0 J 1/10W	KR1E1	R353			RK73GB2A471J	CHIP R 470 J 1/10W	
R156,157			RK73GB2A000J	CHIP R 0.0 J 1/10W	E2	R355-359			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R170			RK73GB2A473J	CHIP R 47K J 1/10W		R364,365			RK73FB2B101J	CHIP R 100 J 1/8W	
R180			RK73GB2A100J	CHIP R 10 J 1/10W		R366,367			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R181			RK73GB2A101J	CHIP R 100 J 1/10W		R373			RK73FB2B102J	CHIP R 1.0K J 1/8W	
R182			RK73GB2A750J	CHIP R 75 J 1/10W		R401,402			RK73GB2A331J	CHIP R 330 J 1/10W	
R184			RK73GB2A102J	CHIP R 1.0K J 1/10W		R403,404			RK73GB2A223J	CHIP R 22K J 1/10W	
R190			RK73EB2E103J	CHIP R 10K J 1/4W		R405,406			RK73GB2A331J	CHIP R 330 J 1/10W	
R201			RK73GB2A101J	CHIP R 100 J 1/10W		R407,408			RK73GB2A223J	CHIP R 22K J 1/10W	
R202			RK73GB2A104J	CHIP R 100K J 1/10W		R413,414			RK73FB2B181J	CHIP R 180 J 1/8W	
R203			RK73GB2A225J	CHIP R 2.2M J 1/10W		R417,418			RK73FB2B181J	CHIP R 180 J 1/8W	
R207			RK73GB2A103J	CHIP R 10K J 1/10W		R421			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R208			RK73GB2A104J	CHIP R 100K J 1/10W		R423-428			RK73GB2A471J	CHIP R 470 J 1/10W	
R209			RK73GB2A103J	CHIP R 10K J 1/10W		R437,438			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R211			RK73GB2A102J	CHIP R 1.0K J 1/10W		R439,440			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R212			RK73GB2A473J	CHIP R 47K J 1/10W		R451			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R215			RK73GB2A473J	CHIP R 47K J 1/10W		R452			RK73GB2A103J	CHIP R 10K J 1/10W	
R218			RK73GB2A104J	CHIP R 100K J 1/10W		R453,454			RK73GB2A220J	CHIP R 22 J 1/10W	
R221			RK73GB2A102J	CHIP R 1.0K J 1/10W		R461			RK73EB2E2R2J	CHIP R 2.2 J 1/4W	
R222			RK73GB2A101J	CHIP R 100 J 1/10W		R462			RK73GB2A683J	CHIP R 68K J 1/10W	
R223			RK73GB2A223J	CHIP R 22K J 1/10W	E1E2	R463			RK73GB2A223J	CHIP R 22K J 1/10W	
R229,230			RK73GB2A473J	CHIP R 47K J 1/10W		R464			RK73GB2A103J	CHIP R 10K J 1/10W	
R234,235			RK73GB2A103J	CHIP R 10K J 1/10W		R465			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R237			RK73GB2A101J	CHIP R 100 J 1/10W		R466			RK73GB2A100J	CHIP R 10 J 1/10W	
R239,240			RK73GB2A473J	CHIP R 47K J 1/10W		R475			RK73GB2A473J	CHIP R 47K J 1/10W	
R242,243			RK73GB2A472J	CHIP R 4.7K J 1/10W		R476			RK73GB2A104J	CHIP R 100K J 1/10W	
R251,252			RK73GB2A392J	CHIP R 3.9K J 1/10W		R487,488			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R257			RK73GB2A472J	CHIP R 4.7K J 1/10W		R501			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R261			RK73GB2A101J	CHIP R 100 J 1/10W		R503			RK73GB2A912J	CHIP R 9.1K J 1/10W	
R262			RK73GB2A223J	CHIP R 22K J 1/10W	R1E1E2	R504			RK73GB2A223J	CHIP R 22K J 1/10W	
R262			RK73GB2A223J	CHIP R 22K J 1/10W	M1X1	R505			RK73GB2A331J	CHIP R 330 J 1/10W	
R263			RK73GB2A473J	CHIP R 47K J 1/10W	X1	R506			RK73GB2A333J	CHIP R 33K J 1/10W	
R263,264			RK73GB2A223J	CHIP R 22K J 1/10W	K	R507			RK73GB2A473J	CHIP R 47K J 1/10W	
R264			RK73GB2A223J	CHIP R 22K J 1/10W	R1E2	R508			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R264,265			RK73GB2A223J	CHIP R 22K J 1/10W	E1	R509			RK73GB2A473J	CHIP R 47K J 1/10W	
R265			RK73GB2A223J	CHIP R 22K J 1/10W	M1X1	R511			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R265,266			RK73GB2A473J	CHIP R 47K J 1/10W	E2	R520-523			RK73EB2E432J	CHIP R 4.3K J 1/4W	
R266			RK73GB2A473J	CHIP R 47K J 1/10W	KR1E1	R524			RK73EB2E101J	CHIP R 100 J 1/4W	
R266			RK73GB2A473J	CHIP R 47K J 1/10W	M1X1	R525,526			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R272			RK73GB2A101J	CHIP R 100 J 1/10W		R527			RK73EB2E101J	CHIP R 100 J 1/4W	
R278			RK73GB2A102J	CHIP R 1.0K J 1/10W		R528			RK73EB2E470J	CHIP R 47 J 1/4W	
R281			RK73GB2A472J	CHIP R 4.7K J 1/10W		R529,530			RK73EB2E101J	CHIP R 100 J 1/4W	

E1 : KDV-5244U E2 : KDV-5544U (Europe)
K : KDV-415U (North America) R1 : KDV-MP5042U (Latin America)
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△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-637x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R552 R553-555 R601,602 R603,604 R605,606			RK73GB2A102J RK73GB2A222J RK73GB2A750J RK73GB2A103J RK73GB2A101J	CHIP R 1.0K J 1/10W CHIP R 2.2K J 1/10W CHIP R 75 J 1/10W CHIP R 10K J 1/10W CHIP R 100 J 1/10W	E1E2 E1E2
R607,608 R611-614 R615-617 R618 R620			RK73GB2A222J RK73GB2A473J RK73GB2A222J RK73GB2A100J RK73GH2A181D	CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 2.2K J 1/10W CHIP R 10 J 1/10W CHIP R 180 D 1/10W	
R621 R624 R626 R629 R630			RK73GH2A182D RK73GB2A101J RK73GB2A100J RK73GB2A473J RK73GB2A474J	CHIP R 1.8K D 1/10W CHIP R 100 J 1/10W CHIP R 10 J 1/10W CHIP R 47K J 1/10W CHIP R 470K J 1/10W	
R631 R632 R633 R634 R635			RK73GB2A103J RK73GB2A474J RK73GB2A134J RK73GB2A103J RK73GB2A100J	CHIP R 10K J 1/10W CHIP R 470K J 1/10W CHIP R 130K J 1/10W CHIP R 10K J 1/10W CHIP R 10 J 1/10W	
R659 R668,669 R673 R679,680 R684			RK73GB2A101J RK73GB2A000J RK73GB2A101J RK73GB2A104J RK73GB2A683J	CHIP R 100 J 1/10W CHIP R 0.0 J 1/10W CHIP R 100 J 1/10W CHIP R 100K J 1/10W CHIP R 68K J 1/10W	
R685 R688			RK73GB2A104J RK73GB2A100J	CHIP R 100K J 1/10W CHIP R 10 J 1/10W	
D1 D10 D11 D20 D30			S2V60-5009F46 UDZW5.6(B) D1FJ4 UDZW5.6(B) UDZW20(B)	DIODE ZENER DIODE DIODE ZENER DIODE ZENER DIODE	
D40 D50 D60 -62 D70 ,71 D80		*	UDZW12(B) UDZW8.2(B) RB160M-30 RB160M-30 RB095B-60	ZENER DIODE ZENER DIODE DIODE DIODE DIODE	
D100-103 D104 D111 D115 D121,122		*	D1F60-5063 DAP202U UDZW4.7(B) DAP202U UDZW6.8(B)	DIODE DIODE ZENER DIODE DIODE ZENER DIODE	
D123 D140 D141 D190 D191			UDZW6.2(B) UDZW12(B) D1F60-5063 UDZW16(B) DAN202U	ZENER DIODE ZENER DIODE DIODE ZENER DIODE DIODE	
D340 D352,353 D354-363 D451-453 D457,458			UDZW6.8(B) LVS10C270S030 UDZW6.8(B) DAP202U DAP202U	ZENER DIODE VARISTOR ZENER DIODE DIODE DIODE	
D459 D460			DA204U 1SS355	DIODE DIODE	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D461-463 D501 D521-523 D527,528 IC10			UDZW6.8(B) DAP202U UDZW6.8(B) UDZW6.2(B) BR24L04FV-W	ZENER DIODE DIODE ZENER DIODE ZENER DIODE ROM IC	
IC20 IC60 IC80 IC120 IC150		*	M5237ML-CF0J SI-3033KMSA BD9781HFP 74HC2G02DP TC7SET08FU-F	ANALOGUE IC ANALOGUE IC ANALOGUE IC MOS-IC MOS-IC	
IC160 IC170 IC171 IC180 IC200		*	R1114N331B-TR 74AHCT08PW 74LVC08APW MM1671XNRE 30626MHPC03GP	ANALOGUE IC (3.3V LF) MOS-IC MOS-IC ANALOGUE IC MICROCONTROLLER IC	KR1M1
IC200 IC200 IC201 IC420 IC451		*	30626MHPC03GP 30626MHPC04GP XC6120N362N1 AK7600VF E-TDA7716	MICROCONTROLLER IC MICROCONTROLLER IC MOS-IC MOS-IC ANALOGUE IC	X1 E1E2
IC475 IC500 IC551 IC601 IC620			BD6538G E-TDA7851A E-TDA7478AD TC4066BFT(N) MM1503-E	MOS-IC ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC	E1E2
IC630 IC671,672 Q10 Q11 Q15			BA7046F NJM2505AF-ZB 2SB1565 2SC4081 2SA1576A	ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR TRANSISTOR	
Q16 Q20 Q21 Q22 Q25			DTC124EUA DTC124EUA DTA124EUA 2SB1565 2SB1184(Q,R)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
Q26 Q27 Q28 Q30 Q31			2SC4081 DTC124EUA DTA124EUA 2SB1565 2SC4081	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
Q32 Q33 Q40 Q41 Q42			DTA124EUA DTC124EUA 2SB1565 2SC4081 DTC124EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
Q43 Q50 Q51 Q100 Q100			DTA124EUA 2SB1565 2SC4081 DTC114YUA DTC114YUA	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	KR1M1 X1
Q101,102 Q101,102 Q102 Q103 Q104			2SB1188(Q,R) 2SB1188(Q,R) 2SB1188(Q,R) 2SA1576A DTA114EUA	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	KR1M1 X1 E1E2

PARTS LIST

ELECTRIC UNIT (X34-637x-xx)

Ref. No.	Ad	New	Parts No.	Description	Destination
Q105 Q115 Q120 Q122,123 Q140			DTC114YUA DTA124EUA 2SC4081 2SC4081 DTC124EUA	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	
Q141 Q142 Q143 Q190 Q301			DTA124EUA 2SB1184(Q,R) 2SC4081 DTA114YUA 2SA1577	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
Q302 Q351 Q401-404 Q451 Q601,602			DTC124EUA DTA114YUA DTC143TUA 2SC4081 2SC4081	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR	
Q603,604 Q605-607 TH500			2SA1576A DTC114EUA PRF18BE471QS2	TRANSISTOR DIGITAL TRANSISTOR POSITIVE RESISTOR	
A1 A1 A1			X86-4032-70 X86-4230-11 X86-4230-11	FRONT-END UNIT FRONT-END UNIT FRONT-END UNIT	E1E2 KR1M1 X1
DVD UNIT					
C2 -9 C11 -20 C21 -23 C24 -26 C31			CK73GB1C104K CK73GB1C104K C92-2007-08 CK73GB1C104K CC73GCH1H681J	CHIP C 0.10UF K CHIP C 0.10UF K ELECTRO 47UF 10WV CHIP C 0.10UF K CHIP C 680PF J	
C32 C48 C50 C51 ,52 C60			CC73GCH1H561J CK73GB1C104K CK73GB1C104K CC73GCH1H040C CK73GB1H103K	CHIP C 560PF J CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 4.0PF C CHIP C 0.010UF K	
C63 C65 ,66 C67 C68 C69			C92-2006-08 CK73GB1C104K CK73GB1H103K CK73GB1C104K CK73FB1C105K	ELECTRO 47UF 6.3WV CHIP C 0.10UF K CHIP C 0.010UF K CHIP C 0.10UF K CHIP C 1.0UF K	
C70 ,71 C72 C73 -79 C80 C81			CK73GB1C104K CK73GB1A105K CK73GB1C104K CK73FB1C105K CC73GCH1H120J	CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 12PF J	
C82 C83 C84 C85 -88 C89			CC73GCH1H150J CK73GB1C104K CK73GB1C333K CK73GB1C104K C93-1511-08	CHIP C 15PF J CHIP C 0.10UF K CHIP C 0.033UF K CHIP C 0.10UF K CHIP C 0.018UF K	
C90 C91 C92 ,93 C99 C100			CK73GB1H562K CK73GB1C104K CK73FB1C105K CK73GB1C104K C93-1518-08	CHIP C 5600PF K CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 0.68UF K	
C101 C102			CK73GB1C104K C93-1518-08	CHIP C 0.10UF K CHIP C 0.68UF K	

Ref. No.	Ad	New	Parts No.	Description	Destination
C109 C113 C117 C118 C121,122			CK73FB1C105K CK73FB1C105K CK73FB1C105K CK73GB1H103K CK73GB1C104K	CHIP C 1.0UF K CHIP C 1.0UF K CHIP C 1.0UF K CHIP C 0.010UF K CHIP C 0.10UF K	
C126-136 C137 C139 C142 C143			CK73GB1C104K C92-2005-08 C92-2005-08 CK73GB1C104K C92-2007-08	CHIP C 0.10UF K ELECTRO 22UF 6.3WV ELECTRO 22UF 6.3WV CHIP C 0.10UF K ELECTRO 47UF 10WV	
C145 C148 C149 C151 C155			C92-2007-08 CC73GCH1H331J CK73GB1C104K CK73GB1C473K CC73GCH1H101J	ELECTRO 47UF 10WV CHIP C 330PF J CHIP C 0.10UF K CHIP C 0.047UF K CHIP C 100PF J	
C156 C161,162 C164 C165 C167			CK73GB1C104K CK73GB1C104K CK73FB1C105K CK73GB1C104K C93-1517-08	CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 1.0UF K CHIP C 0.10UF K CHIP C 2700PF J	
C170 C173,174 C175 C176-178 C197			CK73GB1C104K CK73GB1C104K C92-2016-08 CK73GB1C104K CK73GB1C104K	CHIP C 0.10UF K CHIP C 0.10UF K ELECTRO 100UF 16WV CHIP C 0.10UF K CHIP C 0.10UF K	
C199 C200 C201 C205 C206			CK73GB1C104K C92-2006-08 CK73GB1C104K CK73FB1A225K C93-1516-08	CHIP C 0.10UF K ELECTRO 47UF 6.3WV CHIP C 0.10UF K CHIP C 2.2UF K CHIP C 2200PF J	
C211 C215 C216 C218 C219			CK73GB1C104K CC73GCH1H181J CK73GB1C104K CK73GB1C104K CK73GB1H223K	CHIP C 0.10UF K CHIP C 180PF J CHIP C 0.10UF K CHIP C 0.10UF K CHIP C 0.022UF K	
C220 C222 C223 C224 C225			CK73GB1H102K CK73GB1C104K CK73GB1H102K CK73FB1A225K C92-2016-08	CHIP C 1000PF K CHIP C 0.10UF K CHIP C 1000PF K CHIP C 2.2UF K ELECTRO 100UF 16WV	
C228 C229 C232 C233 C235			CK73GB1H102K CK73GB1H223K C92-2016-08 CK73FB1C105K CK73GB1H102K	CHIP C 1000PF K CHIP C 0.022UF K ELECTRO 100UF 16WV CHIP C 1.0UF K CHIP C 1000PF K	
C237 C238 C240,241			CC73GCH1H221J CK73GB1C104K CK73GB1C104K	CHIP C 220PF J CHIP C 0.10UF K CHIP C 0.10UF K	
CN1 CN2 CN101 CN403		*	E41-3117-08 E41-3135-08 E41-3115-08 E41-3136-08	CONNECTOR W TO B CONNE FPC CONNE FFC/FPC CONNE	
K101,102 K103,104			L92-0657-08 L92-0659-08	FERRITE BEADS FERRITE BEADS	

E1 : KDV-5244U E2 : KDV-5544U (Europe)
K : KDV-415U (North America) R1 : KDV-MP5042U (Latin America)
X1 : KDV-MP5443U (Australia) M1 : KDV-MP5343U (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DVD UNIT

Ref. No.	Ad	New	Parts No.	Description	Destination
K108 K110,111 K113 K121 K131-133			L92-0658-08 L92-0658-08 L92-0659-08 L33-2500-08 L33-2508-08	FERRITE BEADS FERRITE BEADS FERRITE BEADS CHIP INDUCTOR FERRITE BEADS	
K135,136 K181 L302,303 X351 X354			L33-2508-08 L92-0658-08 L33-2549-08 L77-3808-08 L77-3816-08	FERRITE BEADS FERRITE BEADS INDUCTOR CRYSTAL CRYSTAL	
K105-107 K114,115 K117-120 K134 K137			RK73GB2A000J RK73GB2A000J RK73GB2A000J RK73GB2A000J RK73GB2A000J	CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W	
K141,142 R21 ,22 R25 R31 R36 ,37			RK73GB2A000J RK73GB2A000J RK73GB2A000J RK73GB2A000J RK73HH1J153D	CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 15K D 1/16W	
R46 ,47 R49 R51 R52 ,53 R54 ,55			RK73HH1J103D RK73GB2A000J RK73GB2A000J RK73HH1J103D R92-5252-08	CHIP R 10K D 1/16W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W CHIP R 10K D 1/16W CHIP R 22 D 1/16W	
R56 R57 R58 R59 R60			RK73GH2A432D RK73GH2A242D R92-5246-08 RK73GB2A2R2J RK73HH1J102D	CHIP R 4.3K D 1/10W CHIP R 2.4K D 1/10W CHIP R 39 J 1/2W CHIP R 2.2 J 1/10W CHIP R 1.0K D 1/16W	
R61 ,62 R64 R65 R66 R67			RK73HH1J471D RK73GH2A432D RK73GH2A242D R92-5240-08 RK73GB2A2R2J	CHIP R 470 D 1/16W CHIP R 4.3K D 1/10W CHIP R 2.4K D 1/10W CHIP R 12 J 1/2W CHIP R 2.2 J 1/10W	
R68 R69 R70 R77 R79			RK73HH1J102D RK73GB2A471J RK73HH1J331D RK73FB2B000J RK73HH1J104D	CHIP R 1.0K D 1/16W CHIP R 470 J 1/10W CHIP R 330 D 1/16W CHIP R 0.0 J 1/8W CHIP R 100K D 1/16W	
R83 R87 R89 R90 R92			RK73HH1J103D RK73GB2A103J RK73GB2A103J RK73HH1J103D RK73GB2A473J	CHIP R 10K D 1/16W CHIP R 10K J 1/10W CHIP R 10K J 1/10W CHIP R 10K D 1/16W CHIP R 47K J 1/10W	
R93 R94 R99 R100 R101			RK73HH1J203D RK73HH1J223D RK73GB2A000J RK73HH1J103D RK73GB2A000J	CHIP R 20K D 1/16W CHIP R 22K D 1/16W CHIP R 0.0 J 1/10W CHIP R 10K D 1/16W CHIP R 0.0 J 1/10W	
R105 R106 R107 R109 R112,113			RK73GB2A000J RK73GB2A103J RK73GB2A152J RK73GB2A000J RK73GB2A000J	CHIP R 0.0 J 1/10W CHIP R 10K J 1/10W CHIP R 1.5K J 1/10W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W	

Ref. No.	Ad	New	Parts No.	Description	Destination
R114 R117 R118 R119 R120			RK73GB2A103J RK73HH1J103D RK73HH1J101D RK73GH2A471D RK73GB2A152J	CHIP R 10K J 1/10W CHIP R 10K D 1/16W CHIP R 100 D 1/16W CHIP R 470 D 1/10W CHIP R 1.5K J 1/10W	
R125 R126 R128 R129 R131,132			RK73GB2A120J RK73GB2A102J RK73HH1J270D RK73HH1J103D RK73HH1J102D	CHIP R 12 J 1/10W CHIP R 1.0K J 1/10W CHIP R 27 D 1/16W CHIP R 10K D 1/16W CHIP R 1.0K D 1/16W	
R133 R134 R136-138 R141 R142			RK73HH1J223D RK73HH1J104D RK73GB2A000J RK73GH2A332D RK73GB2A000J	CHIP R 22K D 1/16W CHIP R 100K D 1/16W CHIP R 0.0 J 1/10W CHIP R 3.3K D 1/10W CHIP R 0.0 J 1/10W	
R143 R144,145 R152 R153 R155,156			RK73HH1J101D RK73HH1J103D RK73GB2A000J RK73GH2A162D RK73GB2A000J	CHIP R 100 D 1/16W CHIP R 10K D 1/16W CHIP R 0.0 J 1/10W CHIP R 1.6K D 1/10W CHIP R 0.0 J 1/10W	
R160 R163 R164 R165,166 R168			RK73GH2A303D RK73HH1J103D RK73GB2A181J RK73HH1J473D RK73HH1J473D	CHIP R 30K D 1/10W CHIP R 10K D 1/16W CHIP R 180 J 1/10W CHIP R 47K D 1/16W CHIP R 47K D 1/16W	
R170 R171 R172-174 R177,178 R183,184			RK73HH1J471D RK73GB2A105J RK73HH1J101D RK73GB2A000J RK73GB2A000J	CHIP R 470 D 1/16W CHIP R 1.0M J 1/10W CHIP R 100 D 1/16W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W	
R187 R189,190 R195 R211 R213			RK73GB2A000J RK73HH1J331D RK73HH1J102D RK73HH1J473D RK73GB2A100J	CHIP R 0.0 J 1/10W CHIP R 330 D 1/16W CHIP R 1.0K D 1/16W CHIP R 47K D 1/16W CHIP R 10 J 1/10W	
R214 R215,216 R217 R218 R220			RK73GB2A000J RK73GH2A122D RK73HH1J100D RK73GB2A000J RK73GB2A000J	CHIP R 0.0 J 1/10W CHIP R 1.2K D 1/10W CHIP R 10 D 1/16W CHIP R 0.0 J 1/10W CHIP R 0.0 J 1/10W	
R226 R227 R228 R229 R233			RK73HH1J473D RK73GB2A222J RK73GB2A103J RK73GB2A000J RK73HH1J103D	CHIP R 47K D 1/16W CHIP R 2.2K J 1/10W CHIP R 10K J 1/10W CHIP R 0.0 J 1/10W CHIP R 10K D 1/16W	
R264 R265 R267 R268 R305,306			RK73GB2A000J RK73HH1J103D RK73GH2A472D RK73GB2A000J R92-5249-08	CHIP R 0.0 J 1/10W CHIP R 10K D 1/16W CHIP R 4.7K D 1/10W CHIP R 0.0 J 1/10W CHIP R 33 F	
R309 R310 R311 R318 R319			R92-5242-08 RK73HH1J333D RK73GB2A391J RK73GB2A203J RK73HH1J622D	CHIP R 0.47 J 1/2W CHIP R 33K D 1/16W CHIP R 390 J 1/10W CHIP R 20K J 1/10W CHIP R 6.2K D 1/16W	

PARTS LIST

DVD UNIT

Ref. No.	Added	New	Parts No.	Description	Destination
R323			RK73HH1J391D	CHIP R 390 D 1/16W	
R324			RK73GH2A682D	CHIP R 6.8K D 1/10W	
R325			RK73GH2A753D	CHIP R 75K D 1/10W	
R329			R92-5242-08	CHIP R 0.47 J 1/2W	
R352			RK73HH1J102D	CHIP R 1.0K D 1/16W	
R357			R92-5247-08	CHIP R 0.22 J 1/2W	
R358			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R359			R92-5251-08	CHIP R 22 D 1/16W	
R362			RK73GB2A103J	CHIP R 10K J 1/10W	
R364			RK73GB2A391J	CHIP R 390 J 1/10W	
R365			RK73HH1J103D	CHIP R 10K D 1/16W	
R366			R92-5247-08	CHIP R 0.22 J 1/2W	
R367			RK73HH1J104D	CHIP R 100K D 1/16W	
R369			R92-5247-08	CHIP R 0.22 J 1/2W	
R371			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R375			RK73HH1J152D	CHIP R 1.5K D 1/16W	
R376			RK73HH1J822D	CHIP R 8.2K D 1/16W	
R379			RK73GH2A332D	CHIP R 3.3K D 1/10W	
R380			RK73GB2A223J	CHIP R 22K J 1/10W	
R382			RK73HH1J102D	CHIP R 1.0K D 1/16W	
R383			RK73GB2A223J	CHIP R 22K J 1/10W	
R384			RK73HH1J104D	CHIP R 100K D 1/16W	
R386			RK73HH1J184D	CHIP R 180K D 1/16W	
R387			RK73GH2A473D	CHIP R 47K D 1/10W	
R391			RK73HH1J822D	CHIP R 8.2K D 1/16W	
R392			RK73GB2A103J	CHIP R 10K J 1/10W	
R393			RK73HH1J103D	CHIP R 10K D 1/16W	
R394			RK73GB2A273J	CHIP R 27K J 1/10W	
R397			RK73HH1J101D	CHIP R 100 D 1/16W	
R400			RK73HH1J153D	CHIP R 15K D 1/16W	
R402			RK73HH1J473D	CHIP R 47K D 1/16W	
R403			RK73GB2A101J	CHIP R 100 J 1/10W	
R406			R92-5247-08	CHIP R 0.22 J 1/2W	
R417			RK73GB2A183J	CHIP R 18K J 1/10W	
R419			RK73GH2A104D	CHIP R 100K D 1/10W	
R420			RK73HH1J184D	CHIP R 180K D 1/16W	
S1			S74-0829-08	DETECT SWITCH	
D6 ,7			AN1102W-6-X	IR LED	
D9			PS1192HB-22-X	PHOTO TRANSISTO	
D11			PS1192HB-22-X	PHOTO TRANSISTO	
IC1			BD8215EFV-X	IC	
IC3		*	MM3233CF-X	IC	
IC7			TC7PA53FU-X	IC	
IC8			MF1341S2162	IC	
IC301			MN2DS0018MA	IC	
IC302			MM1701CH-X	IC	
IC308			NJU6368PF1-X	IC	
IC398		*	SG32N90TFI031Y	IC (PROGRAMED)	
IC399		*	M12L128168A7TG	IC (DIGITAL)	
IC400			AK4387ET-X	IC	
IC481		*	BR24S32FVT-W-X	IC (DIGITAL)	
IC501,502			TC74LCX373FT-X	IC (DIGITAL)	
Q2			RT1N141U-X	DIGI TRANSISTOR	

Ref. No.	Added	New	Parts No.	Description	Destination
Q4		*	2SD601A/R/-X	TRANSISTOR	
Q7		*	2SD601A/R/-X	TRANSISTOR	
Q8			2SA1774/R/-X	TRANSISTOR	
Q9			2SC4617/R/-X	TRANSISTOR	
Q101			2SB1424/R/-W	TRANSISTOR	
Q102			2SC4617/R/-X	TRANSISTOR	
Q103			2SB1424/R/-W	TRANSISTOR	
Q104,105			2SC4617/R/-X	TRANSISTOR	
Q106,107			2SK3546J-X	MOS FET	
Q301,302			RT1N441U-X	DIGI TRANSISTOR	
TH491			NAD0025-103X	N THERMISTOR	
DVD MECHANISM ASSY (D40-2229-05)					
1		*	A10-5536-08	CHASSIS	
2			J22-0881-08	MOUNTING HARDWAER	
3			N09-6779-08	SPECIAL SCREW	
4		*	G01-4747-08	TORSION COIL SPRING	
5			G01-4711-08	TORSION COIL SPRING	
6			N09-6778-08	SPECIAL SCREW	
7			D39-0283-08	DAMPER	
8			D39-0284-08	DAMPER	
9			G01-4712-08	TORSION COIL SPRING	
10			G01-4713-08	TORSION COIL SPRING	
11			G01-4714-08	TORSION COIL SPRING	
12			G01-4715-08	TORSION COIL SPRING	
13			J22-0882-08	MOUNTING HARDWAER	
14			N09-6780-08	SPECIAL SCREW	
15			T42-1356-08	DC MOTOR	
16			N09-6781-08	SPECIAL SCREW	
17			G02-1598-08	FLAT SPRING	
18			D13-2499-08	GEAR	
19			D13-2500-08	GEAR	
20			D13-3001-08	GEAR	
21			D13-3002-08	GEAR	
22			D13-3003-08	GEAR	
23			D13-3004-08	GEAR	
24			D13-3005-08	GEAR	
25			D13-3006-08	GEAR	
26			J22-0883-08	MOUNTING HARDWAER	
27			N09-6778-08	SPECIAL SCREW	
28			D10-7065-08	SLIDE CAM ASSY	
29			G01-4716-08	TORSION COIL SPRING	
30			A10-5515-08	CHASSIS	
31			J30-1096-08	SPACER	
32		*	J22-0909-08	MOUNTING HARDWAER	
33		*	E39-1099-08	WIRING HARNESS ASSY	
34			N09-6782-08	SPECIAL SCREW	
35		*	D10-7096-08	LOADING ARM AS	
36		*	D14-1035-08	ROLLER	
37		*	D21-2534-08	SHAFT	
38			J22-0885-08	MOUNTING HARDWAER	
39		*	N29-0544-08	WASHER	
40			N29-0542-08	RETAINING RING	
41			J31-1082-08	COLLAR	
42		*	J31-1087-08	COLLAR	

E1 : KDV-5244U E2 : KDV-5544U (Europe)
K : KDV-415U (North America) R1 : KDV-MP5042U (Latin America)
X1 : KDV-MP5443U (Australia) M1 : KDV-MP5343U (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DVD MECHANISM ASSY (D40-2229-05)

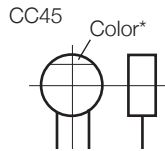
Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
43		*	D10-7097-08	ARM							
44			D13-3007-08	GEAR							
45			D13-3008-08	GEAR							
46			N29-0543-08	RETAINING RING							
47			D13-3009-08	GEAR							
48		*	G01-4748-08	TORSION COIL SPRING							
49			N09-6778-08	SPECIAL SCREW							
50		*	D40-2232-08	TRA MECHA UNIT							
51			G01-4718-08	TORSION COIL SPRING							
52		*	J30-1099-08	SPACER (P)							
53			N09-6778-08	SPECIAL SCREW							

PARTS LIST

CAPACITORS

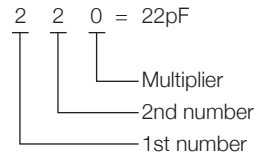
CC 45 TH 1H 220 J
1 2 3 4 5 6

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



Capacitor value

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



Temperature coefficient

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

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

Example : CC45TH = -470±60ppm/°C

Tolerance (More than 10pF)

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

(Less than 10pF)

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

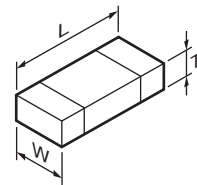
Voltage rating

2nd word	A	B	C	D	E	F	G	H	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

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

Dimension



Chip capacitor

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

Chip resistor

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

RESISTORS

Chip resistor (Carbon)

- (EX) RD 73 E B 2B 000 J
1 2 3 4 5 6 7
(Chip) (B, F)

Carbon resistor (Normal type)

- (EX) RD 14 B B 2C 000 J
1 2 3 4 5 6 7

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

Rating wattage

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

SPECIFICATIONS (K,R TYPE)

FM tuner section

Frequency range	
200 kHz space	87.9 MHz – 107.9 MHz
50 kHz space (KDV-MP5042U)	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 30dB)	9.3dBf (0.8 μ V/ 75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 μ V/ 75 Ω)
Frequency response ($\pm$ 3 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	70 dB
Selectivity ($\pm$ 400 kHz)	$\geq$ 80 dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range (10 kHz space)	530 kHz – 1700 kHz
Usable sensitivity (S/N = 20dB)	28 dB μ (25 μ V)

DVD player section

Signal Detection System	
..... Non-contact optical pickup (semiconductor laser)	
Wow & Flutter	Below Measurable Limit
Frequency response	
Sampling frequency; 96 kHz	16 – 22,000 Hz
Sampling frequency; 48 kHz	16 – 22,000 Hz
Sampling frequency; 44.1 kHz	16 – 20,000 Hz
Signal to Noise ratio (1 kHz)	95 dB
Dynamic range	
Sampling frequency; 96 kHz	100 dB
Sampling frequency; 48/ 44.1 kHz	90 dB
DivX	
Max. Resolution	
.....720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate	32kbps - 320kbps
Audio Sampling Frequency...MPEG-1: 32k/ 44.1k/ 48kHz	
MPEG-2: 16k/ 22.05/ 24kHz	
MPEG video	
Max. Resolution	
.....720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate	32kbps - 320kbps
Audio Sampling Frequency	32k/ 44.1k/ 48kHz
MP3	
Bit Rate	32kbps - 320kbps
Sampling Frequency	MPEG-1: 32k/ 44.1k/ 48kHz
MPEG-2: 16k/ 22.05/ 24kHz	
WMA	
Bit Rate	32kbps - 320kbps
Sampling Frequency	22.05k/ 32k/ 44.1k/ 48kHz

WAV (Linear PCM)

Quantization Bit Rate	16 bit
Sampling Frequency	44.1kHz

USB Interface

USB Standard	USB1.1/ 2.0
Data Transfer Rate	Maximum 12 Mbps
Compatible Device	Mass storage class
Maximum Supply current	500 mA
File System	FAT16/ 32
Playable Video/Audio Format	MPEG1/ MPEG2/
DivX (Maximum 2 Mbps)/ MP3/ WMA/ WAV (Linear PCM)	

Audio/ Video section

Maximum output power	50 W x 4
Full Bandwidth Power (at less than 1% THD)	22 W x 4
Speaker Impedance	4 – 8 Ω
Tone action	
Frequency (BAND1 – 5)	60/ 250/ 1k/ 4k/ 16k Hz
Gain	$\pm$ 9 dB
Video terminal	
Output/ Input level	1 Vp-p (75 Ω)
Color System	NTSC
Audio terminal	
Output level / Load (DVD)	2500 mV/ 10 k Ω
Output impedance	$\leq$ 600 Ω
Input Maximum Voltage	1200 mV
Input Impedance	10 k Ω
General	
Operating voltage (10.5 – 16V allowable)	14.4 V
Maximum Current consumption	10 A
Installation Size (W x H x D)	182 x 53 x 159 mm
	7-3/16 x 2-1/16 x 6-1/4 inch
Weight	3.1 lbs (1.4 kg)

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SPECIFICATIONS (E TYPE)

FM tuner section

Frequency range (50 kHz space).....	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 26dB).....	0.7 μ V/ 75 Ω
Quieting Sensitivity (S/N = 46dB).....	1.6 μ V/ 75 Ω
Frequency response ($\pm$ 3.0 dB).....	30 Hz – 15 kHz
Signal to Noise ratio (MONO).....	65 dB
Selectivity (DIN) ($\pm$ 400 kHz).....	$\geq$ 80 dB
Stereo separation (1 kHz).....	35 dB

MW tuner section

Frequency range (9 kHz space).....	531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB).....	25 μ V

LW tuner section

Frequency range	153 kHz – 281 kHz
Usable sensitivity (S/N = 20dB).....	45 μ V

DVD player section

Signal Detection System	
..... Non-contact optical pickup (semiconductor laser)	
Wow & Flutter	Below Measurable Limit
Frequency response	
Sampling frequency; 96 kHz.....	16 – 22,000 Hz
Sampling frequency; 48 kHz.....	16 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	16 – 20,000 Hz
Signal to Noise ratio (1 kHz).....	95 dB
Dynamic range	
Sampling frequency; 96 kHz.....	100 dB
Sampling frequency; 48/ 44.1 kHz.....	90 dB
DivX	
Max. Resolution	
.....720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate.....	32kbps - 320kbps
Audio Sampling Frequency.....	32k/ 44.1k/ 48kHz
MPEG video	
Max. Resolution	
.....720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate.....	32kbps - 320kbps
Audio Sampling Frequency	MPEG-1: 32k/ 44.1k/ 48kHz
	MPEG-2: 16k/ 22.05/ 24kHz
MP3	
Bit Rate	32kbps - 320kbps
Sampling Frequency	MPEG-1: 32k/ 44.1k/ 48kHz
	MPEG-2: 16k/ 22.05/ 24kHz

WMA

Bit Rate	32kbps - 320kbps
Sampling Frequency	22.05k/ 32k/44.1k/ 48kHz

WAV (Linear PCM)

Quantization Bit Rate.....	16 bit
Sampling Frequency	44.1kHz

USB Interface (KDV-5244U/KDV-5544U)

USB Standard	USB1.1/ 2.0
Data Transfer Rate.....	Maximum 12 Mbps
Compatible Device	Mass storage class
Maximum Supply current	500 mA
File System	FAT16/ 32
Playable Video/Audio Format	MPEG1/ MPEG2/
DivX (Maximum 2 Mbps)/ MP3/ WMA/ WAV (Linear PCM)	

Audio section

Maximum output power	50 W x 4
Output power (DIN 45324, +B = 14.4V)	30 W x 4
Speaker Impedance	4 – 8 Ω
Tone action	
Frequency (BAND1 – 5)	60/ 250/ 1k/ 4k/ 16k Hz
Gain.....	$\pm$ 9 dB
Video terminal	
Output/ Input level	1 Vp-p (75 Ω)
Color System	PAL
Audio terminal	
Output level / Load (DVD)	2500 mV/ 10 k Ω
Output impedance	$\leq$ 600 Ω
Input Maximum Voltage	1200 mV
Input Impedance.....	10 k Ω

General

Operating voltage (10.5 – 16V allowable).....	14.4 V
Maximum Current consumption.....	10 A
Installation Size (W x H x D)	182 x 53 x 159 mm
Weight	1.4 kg

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SPECIFICATIONS (M,X TYPE)

FM tuner section

Frequency range	
200 kHz space	87.9 MHz – 107.9 MHz
50 kHz space	87.5 MHz – 108.0 MHz
Usable sensitivity (S/N = 30dB)	9.3dBf (0.8 μ V/75 Ω)
Quieting Sensitivity (S/N = 50dB)	15.2dBf (1.6 μ V/75 Ω)
Frequency response (± 3 dB)	30 Hz – 15 kHz
Signal to Noise ratio (MONO)	70 dB
Selectivity (± 400 kHz)	≥ 80 dB
Stereo separation (1 kHz)	40 dB

AM tuner section

Frequency range	
10 kHz space	530 kHz – 1700 kHz
9 kHz space	531 kHz – 1611 kHz
Usable sensitivity (S/N = 20dB)	28 dB μ (25 μ V)

DVD player section

Signal Detection System	
..... Non-contact optical pickup (semiconductor laser)	
Wow & Flutter	Below Measurable Limit
Frequency response	
Sampling frequency; 96 kHz	16 – 22,000 Hz
Sampling frequency; 48 kHz	16 – 22,000 Hz
Sampling frequency; 44.1 kHz	16 – 20,000 Hz
Signal to Noise ratio (1 kHz)	95 dB
Dynamic range	
Sampling frequency; 96 kHz	100 dB
Sampling frequency; 48/ 44.1 kHz	90 dB
DivX	
Max. Resolution	
..... 720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate	32kbps - 320kbps
Audio Sampling Frequency... MPEG-1: 32k/ 44.1k/ 48kHz	
MPEG-2: 16k/ 22.05/ 24kHz	
MPEG video	
Max. Resolution	
..... 720 x 480 pixels (30fps)/ 720 x 576 pixels (25fps)	
Audio Bit Rate	32kbps - 320kbps
Audio Sampling Frequency	32k/ 44.1k/ 48kHz

MP3

Bit Rate	32kbps - 320kbps
Sampling Frequency	MPEG-1: 32k/ 44.1k/ 48kHz
	MPEG-2: 16k/ 22.05/ 24kHz

WMA

Bit Rate	32kbps - 320kbps
Sampling Frequency	22.05k/ 32k/44.1k/ 48kHz

WAV (Linear PCM)

Quantization Bit Rate	16 bit
Sampling Frequency	44.1kHz

USB Interface (KDV-MP5343U/ KDV-MP5443U)

USB Standard	USB1.1/ 2.0
Data Transfer Rate	Maximum 12 Mbps
Compatible Device	Mass storage class
Maximum Supply current	500 mA
File System	FAT16/ 32
Playable Video/Audio Format	MPEG1/ MPEG2/
DivX (Maximum 2 Mbps)/ MP3/ WMA/ WAV (Linear PCM)	

Audio/ Video section

Maximum output power	50 W x 4
Full Bandwidth Power (at less than 1% THD)	22 W x 4
Speaker Impedance	4 – 8 Ω
Tone action	
Frequency (BAND1 – 5)	60/ 250/ 1k/ 4k/ 16k Hz
Gain	± 9 dB
Video terminal	
Output/ Input level	1 Vp-p (75 Ω)
Color System	NTSC/ PAL
Audio terminal	
Output level / Load (DVD)	2500 mV/ 10 k Ω
Output impedance	≤ 600 Ω
Input Maximum Voltage	1200 mV
Input Impedance	10 k Ω

General

Operating voltage (10.5 – 16V allowable)	14.4 V
Maximum Current consumption	10 A
Installation Size (W x H x D)	182 x 53 x 159 mm
Weight	1.4 kg

DANGER:

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

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