

MONITOR WITH DVD RECEIVER

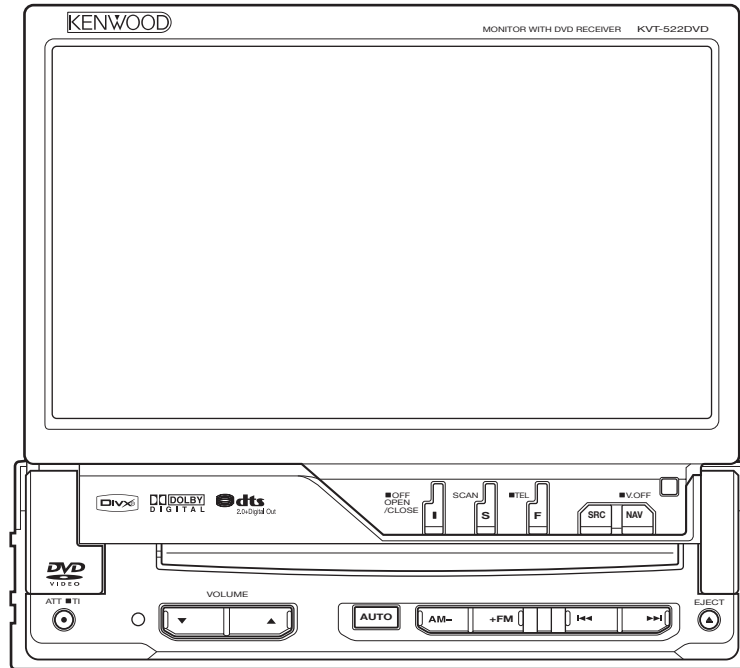
KVT-50DVDRY/512/522DVD /522DVDY/532DVD/532DVDM

KENWOOD

Kenwood Corporation

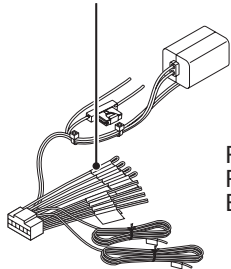
SERVICE MANUAL

© 2008-3 PRINTED IN JAPAN
B53-0621-00 (N) 519

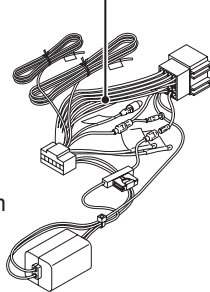


Illustrations is KVT-522DVD

DC cord *
(E30-6815-05)

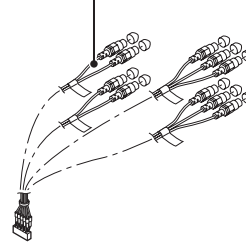


DC cord *
(E30-6816-05)

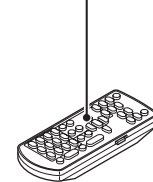


REV: 5m
PRK: 2m
BU,GND: 1m

Cord with plug
(E30-6813-05)

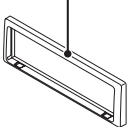


Remote controller *
(A70-2083-15)

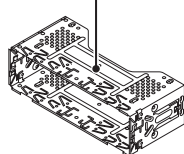


RC-DV340

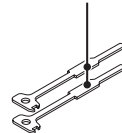
Escutcheon
(B07-3159-02)



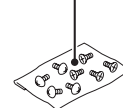
Mounting hardware assy
(J21-9716-03)



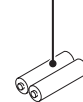
Lever
(D10-4589-04) x2



Screw set *
(N99-1758-15)



SIZE AAA BATTERY *
(NOT SUPPLIED)



- The IC3, and IC11 in the DVD unit (X37-1100-03) are not replaceable components. When these ICs are defective, replace the whole DVD mechanism assembly (X92-6160-00). You cannot replace only the board.
- **TEST MODE is the same as DDX512.**
Please refer to the service manual (DDX512: B53-0620-00).

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

This product uses Lead Free solder.

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

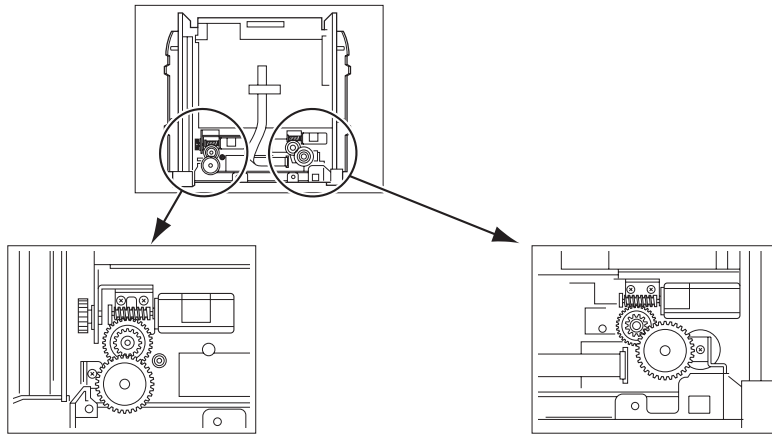


CAUTIONS IN ASSEMBLING PANEL DRIVE MECHANISM (A10-5171)

Observe the instructions described in this document when you are going to replace the parts or components that are shown in this document.

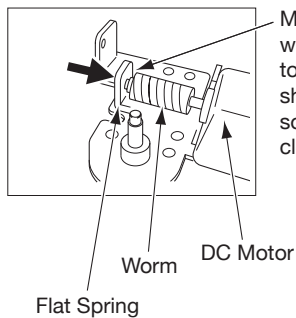
1. Replacement of motor flat spring

- When mounting the flat spring that shall be in contact with the worm gear, press the spring toward the direction shown with an arrow so that there will be no gap between the tip of the gear and the spring and then mount the spring. The gear shall be pressure-inserted into the motor.
- Note that there are two motors. Above operation of mounting the flat spring is required on both of them.

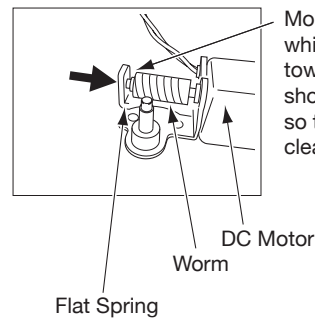


Tilt drive gear train

Slide drive gear train



Mount the flat spring while pressing it towards the direction shown with an arrow so that there will be no clearance.

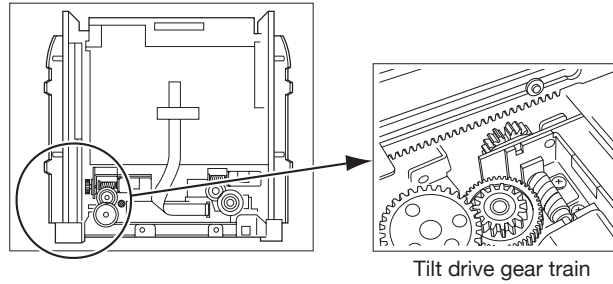


Mount the flat spring while pressing it towards the direction shown with an arrow so that there will be no clearance.

CAUTIONS IN ASSEMBLING PANEL DRIVE MECHANISM (A10-5171)

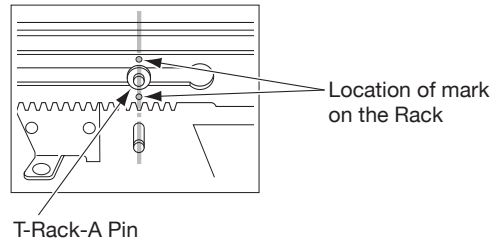
2. Phase matching among gears

- Monitor tilt is driven under the control of the rotary sensor and the phase matching among gears and sensor is required. The procedure for the phase matching is described in the rest of this subsection.

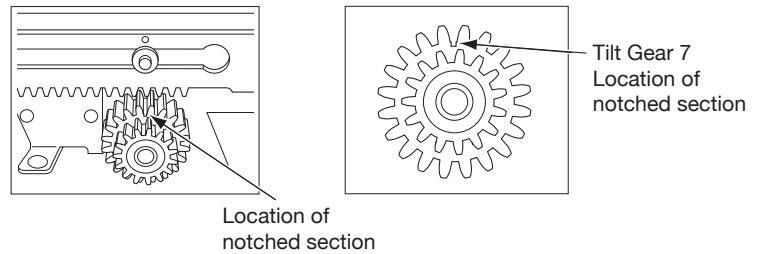


Tilt drive gear train

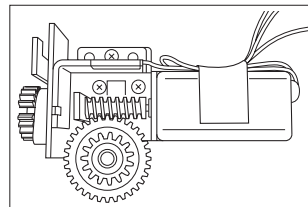
- 1) Align the mark on the rack with the pin. (When the monitor is folded down at 0 degree, the rack is located at the position where the mark and pin are aligned.)



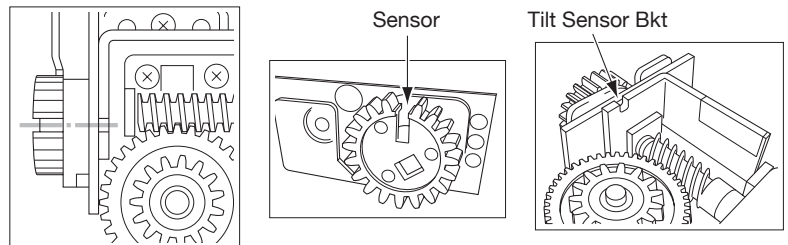
- 2) Insert the gear while keeping aligning the rack pin with the notched section on the tilt gear 7.



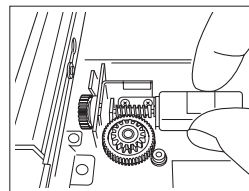
- 3) Pre-assemble the tilt motor bracket assembly (BKT Assy).



- 4) Align the notch on the sensor BKT with the concave section of the sensor in the Assy.



- 5) While keeping the conditions stated in 3) and 4), insert the tilt motor BKT Assy transversally, and fix the motor.



CAUTIONS IN ASSEMBLING PANEL DRIVE MECHANISM (A10-5171)

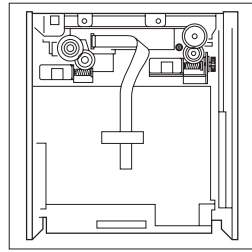
3. Insertion of slider

- This subsection describes cautions for inserting the slider (slide section inside of the unit) into the outer chassis.

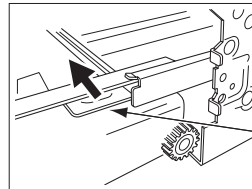
- 1) On the rail at the left side of the slider, there is a part called a stabilizer that is used to minimize play in right and left sides.

The slide is made of resin. (Note that the rail is shown at the right side of the slider in the picture.)

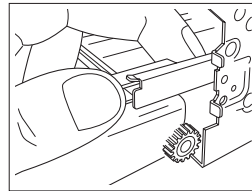
When inserting the slider, press the stabilizer towards the direction shown with a blue arrow and insert it into the groove on the rail.



(Slider -Slide section inside of the unit)

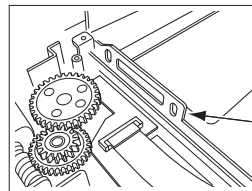


Stabilizer

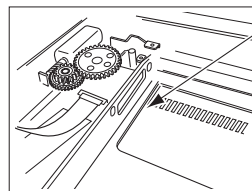
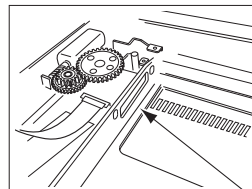


- 2) PCB holder is pushed out towards the downside of the picture due to the spring force and thus the chassis and photo reflection sheet may be get caught by the holder during the assembly.

Insert the slider while slightly lifting up the holder with a pair of tweezers or any other similar device.

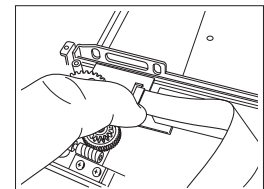
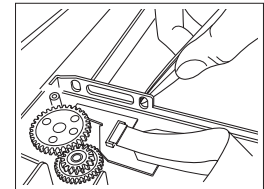


PCB Holder



These portions tend to be get caught.

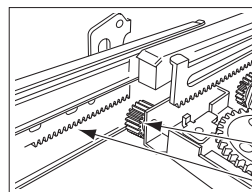
Hold and lift up the holder with a pair of tweezers.



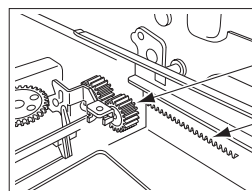
Push the opposite side of the PCB holder towards the downside of the picture and lift up the portions that may get caught.

- 3) Insert the gear after confirming that the both of D shaft gears at the right and left sides of the slider are aligned with the tip of the right and left racks on the chassis.

(Otherwise the slider will be inserted sidelong.)



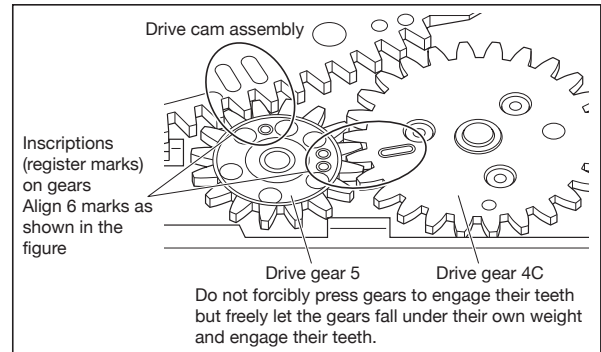
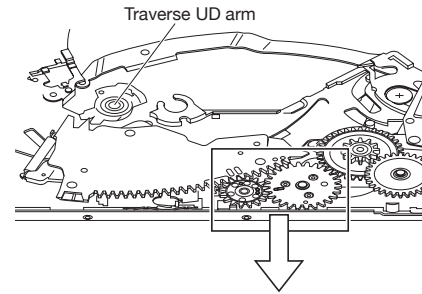
D shaft gear
Rack gear



D shaft gear
Rack gear

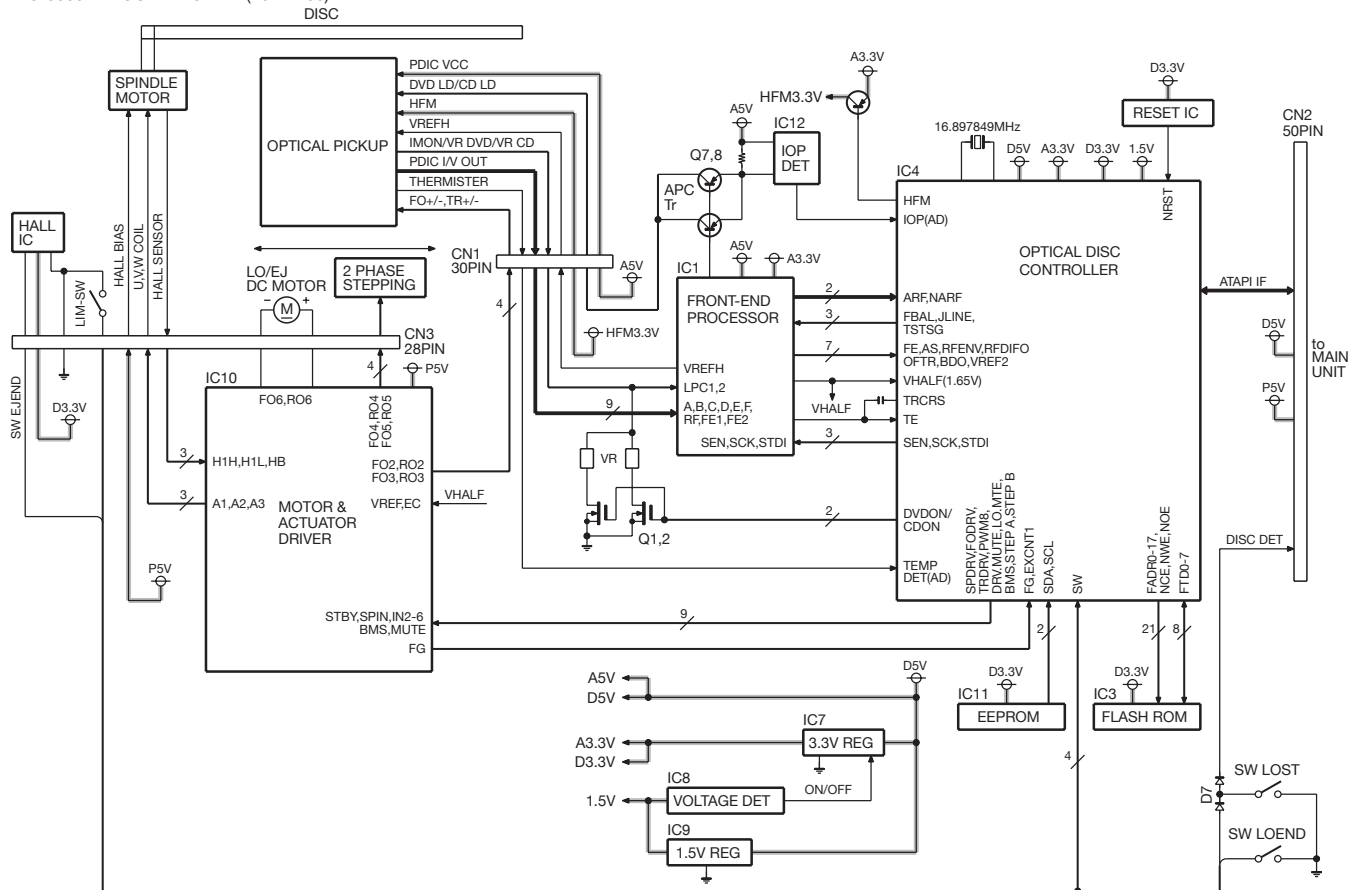
GEAR POSITION IN A DVD MECHANISM

In assembling the Traverse UD arm, Drive cam assembly, Drive gear 5 and Drive gear 4C, align register marks on these components.

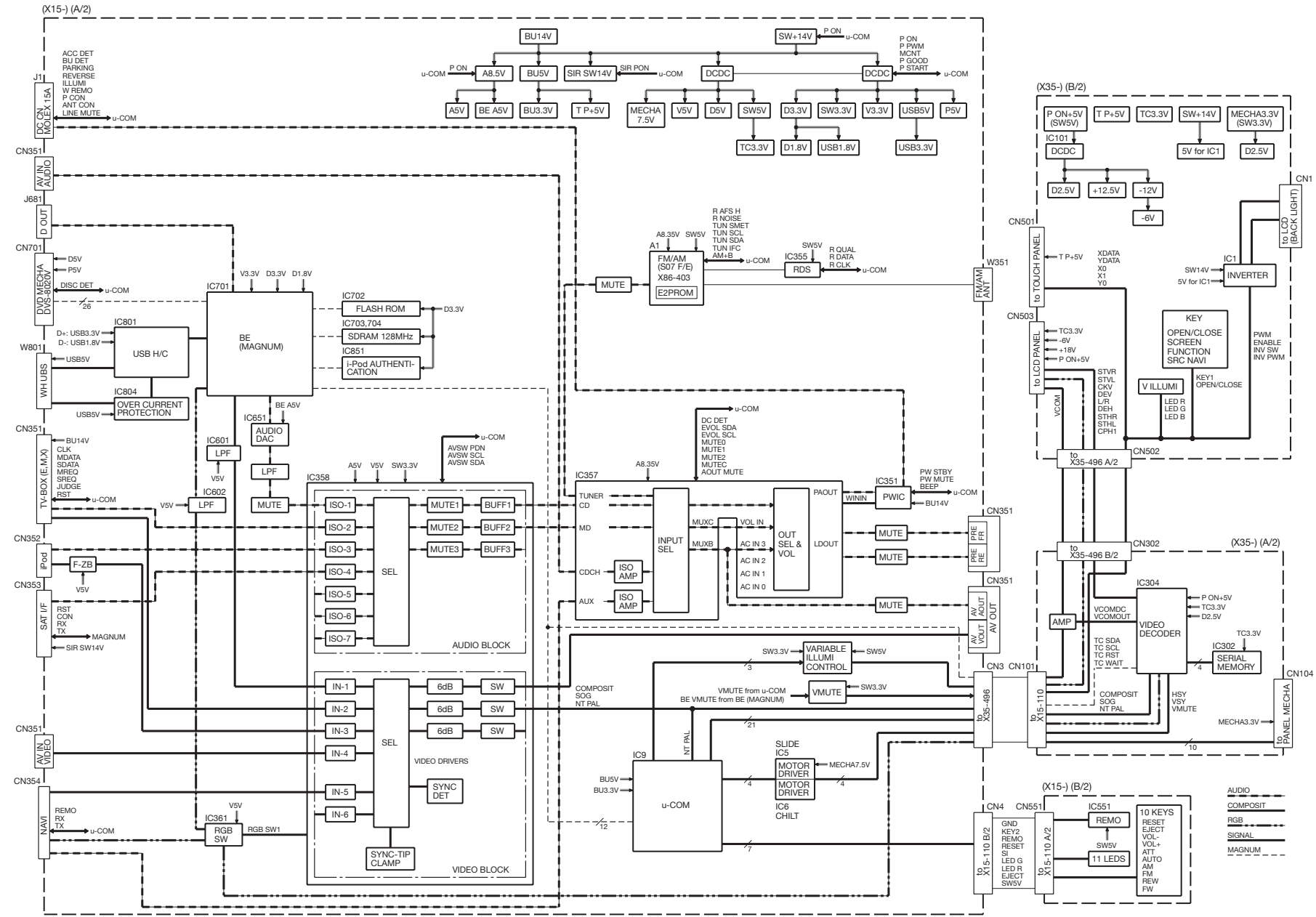


BLOCK DIAGRAM

DVS-8000V BLOCK DIAGRAM (X37-1100)



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	3-terminal regulator	9V→5V regulator
IC2	3-terminal regulator	For AUDIO8.5V
IC3	DC/DC converter IC	MECHA7.5V/D5V control
IC4	DC/DC converter IC	USB5V/D3.3V control
IC5	Motor driver	Slide
IC6	Motor driver	Tilt
IC7	3.3V regulator	TC3.3V
IC8	Buffer for remote controller	Remote controller signal waveform shaping
IC9	System μ -com IC	System control
IC10	E2PROM	For saving the settings
IC12	Voltage detector	μ -com reset voltage (3.5V) monitoring
IC13	OR	For VMUTE
IC351	POWER IC	Power amplifier for speaker output
IC354	VIDEO ISO AMP	iPod video signal
IC355	RDS decoder IC	For RDS signal processing and demodulation
IC356	AND*4	KAB IF 3.3V→5V LEVEL SHIFT
IC357	Electronic volume IC	AUDIO -VOL_CTL/SIG_SELECT
IC358	AV SWITCH	7-input/3-output AUDIO and 6-input/3-output VIDEO
IC361	VIDEO SELECTOR	DVD_BE and NAVI_RGB SELECT
IC401,402	INVERTER	TV_SDATA OUT BUFFER
IC551	IR remote controller photoreceptor	Remote controller signal detection
IC601	VIDEO AMP	DVD_BE COMPOSITE SIG LPF/BUFFER
IC602	VIDEO AMP	DVD_BE RGB SIG LPF/BUFFER
IC651	AUDIO DAC	DVD_BE AUDIO D/A CONVERTER
IC652	OP-AMP*2	DVD_BE AUDIO LPF
IC691	INVERTER	SPDIF OUT BUFFER
IC692	AND	For DVD_BE IC RESET_SIG
IC701	MPEG DECODER	DVD/USB MPEG DECODER
IC702	64M FLASH	FLASH MEMORY (MP 4Z4) for MPEG DECODER
IC703,704	128M SDRAM	SDRAM for MPEG DECODER
IC705	Regulator	3.3V→1.8V regulator for MPEG DECODER
IC801	USB HOST CONTROLLER	2PORT (External/GARMIN navigation) USB HOST CONTROLLER
IC804	Fixed Current Limit Power Distribution Switch	Large current distribution switch for USB
IC805	Regulator	5V→3.3V regulator for USB
IC806	Regulator	SW3.3V→1.8V regulator for USB
IC807	D-TYPE LATCH X 8	Address latch for USB H/C
IC851	COPROCESSOR	IPOD AUTHENTICATION
Q1	SW	REVERSE detection
Q2	SW	PARKING detection

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q3	SW	ILLUMI detection
Q4-7	SW	PCON output
Q8,9	SW	ANT_CON output
Q11	SW	ACC detection
Q12-20	SW	Over voltage/Voltage reduction/BU_DET
Q21-25	SW	BU5V circuit
Q26-28	SW	BU3.3V circuit
Q29,30	SW	T_P+5V circuit
Q35-37	SW	P_ON SW+14V control
Q38	SW	P_ON SW+14V ON/OFF
Q39	SW	A8.5V circuit
Q40-42	SW	A5V circuit
Q43,44	SW	BE_A5V circuit
Q45	SW	KAB SW+14V control
Q46	SW	KAB SW+14V ON/OFF
Q51	SW	DC/DC protection control
Q52	SW	Z2-MECHA power supply voltage (7.5V/5V) switching
Q53	SW	DC/DC protection control
Q54	SW	DC/DC SW FET (MECHA7.5V)
Q55	SW	DC/DC SW FET (D5V)
Q56,57	SW	DC/DC protection control
Q58	SW	DC/DC SW FET (USB5V)
Q59	SW	DC/DC SW FET (D3.3V)
Q60,61	SW	VILL_R power supply
Q62,63	SW	VILL_G power supply
Q64,65	SW	VILL_B power supply
Q66,67	SW	LED_R power supply
Q68,69	SW	LED_G power supply
Q71,72	SW	A8.5V circuit
Q73	SW	DETMUTE circuit (Trigger BU_DET), DETMUTE detection
Q74	SW	DETMUTE circuit (Trigger RESET), DETMUTE detection
Q75	SW	DETMUTE circuit (Trigger RESET), TV_RST detection
Q76	BUFFER	HSY (3.3V→5V)
Q77	SW	DC/DC PSTART
Q78	BUFFER	AVSW_SDA (5V→3.3V)
Q79	BUFFER	AVSW_SCL (5V→3.3V)
Q80	SW	SI
Q82	SW	KAB detection
Q350	SW	KAB_RX error connection protection
Q351-353	SW	Pre-Out_Mute circuit (FRONT)
Q354-356	SW	Pre-Out_Mute circuit (REAR)

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
Q357-360	SW	Pre-Out_Mute circuit (AVOUT)
Q361,362	SW	ON when AM (TUNNER8.5V)
Q370	SW	KAB_RX error connection protection
Q371-373	SW	Tuner_Mute circuit (during ejection)
Q451	BUFFER	HD
Q452	SW	NT_PAL
Q453	BUFFER	DVD_V
Q454,455	SW	For KAB_TX control
Q651	SW	DVD AUDIO MUTE LCH
Q652	SW	DVD AUDIO MUTE RCH
Q653	SW	DVD AUDIO MUTE control
Q654,655	SW	DVD AUDIO neutral point circuit
Q681	BUFFER	SPDIF OUT BUFFER
Q683	SW	DVD AUDIO MUTE control

● VIDEO UNIT (X35-4960-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Inverter IC	Power supply for CCFL
IC101	Power supply IC for LCD	Support 3 output (18V/12.5V/-12V)
IC102	Multi-vibrator IC	For LCD power supply rising timing adjustment
IC103	Logic IC	For LCD power supply rising timing adjustment
IC200	Op amp IC	Buffer for VCOM signal
IC300	Power supply IC	2.5V output
IC302	Serial flush	F/W storage for video decoder IC
IC304	Video decoder IC	For decoding video signal
Q1	For switching	Bright PWM signal SW
Q2,3	Dual FET	For DC/AC conversion
Q4	Register integrated transistor	External synchronization: 121kHz/Free run: 56kHz→ON (On when it is 56kHz)
Q5	Power supply transistor	For inverter IC power supply (5V)
Q101,102	Power supply transistor	For generating -6V from -12V (-12V→-6V)
Q200,202	Buffer transistor	For VCOM signal level conversion
Q203	Integrated transistor	For VCOM signal level conversion
Q501	Register integrated transistor	For touch panel XY coordinate import switching
Q502,503	Integrated Register integrated transistor	For touch panel signal

● DVD UNIT (X37-1100-03)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	RF signal processing IC	RF signal processing
IC3	FLASH ROM	Maintain F/W for optical DISC control IC

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC4	Optical disc control IC in μ -com	Optical DISC general control / ATAPI interface
IC5	Voltage detection IC	For system resetting of optical DISC control IC
IC7	3.3V power supply	5V \rightarrow 3.3V
IC8	Voltage detection IC	For 1.5V power supply IC voltage monitor
IC9	1.5V power supply	5V \rightarrow 1.5V
IC10	Driver IC	Focus coil, Tracking coil, Spindle motor, Sled motor and Lo/Ej motor drive
IC11	EEPROM	Maintain data for optical DISC control IC
IC12	OP-AMP for Iop measurement	For IOP measurement
Q1	Register integrated transistor	SL. MUTE control
Q2	Register integrated transistor	For FG signal
Q3	Register integrated transistor	LO.MUTE control
Q4	Register integrated transistor	DRMU control
Q5	MOS-FET	Laser diode ON/OFF control for DVD
Q6	MOS-FET	Laser diode ON/OFF control for CD
Q12	Transistor for APC	Laser diode brightness control for CD
Q13	Transistor for APC	Laser diode brightness control for DVD
Q14	MOS-FET	For IOP measurement
Q15	Register integrated transistor	HFM ON/OFF control
Q18,19	Register integrated transistor	3.3V power supply IC ON timing control

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM MICROCOMPUTER: 30878MJBA22GP (X15-110: IC9)

Pin No.	Pin Name	I/O	Application	Processing Operation Description
1	EVOL_SDA	I/O	Communication data with E-VOL	
1	EVOL_SDA/E2P_SDA	O	Communication data with E2P	
2	X1	O	Touch panel control	
3	SIR_PON	O	SAT power supply ON/OFF	H: ON, L: OFF
4	VSYNC_DET	I	Video external input detection	Detects if there is VSYNC signal or not.
5	AVSW_SDA	I/O	Communication data with AV switch	
6	AVSW_SCL	O	Communication clock with AV switch	
7	HSY	I	HD input	Counts HD.
8,9	NC	O		
10	TV_SC_REQ/TV_SC_REQ	I	Request from TV μ -com (For other destination than K and R)	
10	TV_SC_REQ/NC	O	(K,R destination)	
11	TV_MC_REQ/TV_MC_REQ	O	Request to TV μ -com (For other destination than K and R)	
11	TV_MC_REQ/NC	O	(K,R destination)	
12	TV_SC_CON/TV_SC_CON	O	Request to start TV μ -com (For other destination than K and R)	
12	TV_SC_CON/NC	O	(K,R destination)	
13	INV_PWM	O	Inverter frequency control	
14	PWIC_MUTE	O	Power IC output mute control	H: OFF, L: ON
15	BYTE			
16	CNVSS			
17	XCIN			
18	XCOU			
19	RESET			
20	XOUT			
21	VSS			
22	XIN			
23	VCC1			
24	NMI			
25	ACC_DET	I	ACC detection	H: ACC reduced power detection
26	BU_DET	I	Backup power supply detection	H: Backup reduced power detection
27	R_CLK/R_CLK	I	Clock input from RDS decoder (For other destination than X and (V))	
27	R_CLK/NC	O	(X, (V) destination)	
28	NC	O		
29	EJECT_MUTE	O	Mute control during loading/ejection	
30	NC	O		
31	PWM	O	LCD brightness control	PWM output synchronized with VSY
32	PRE_MUTEF	O	Pre-out mute (F/R)	H: OFF, L: ON
33	BEEP	O	BEEP	PWM output

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description
34	PRE_MUTESW	O	Pre-out mute (SW)	H: OFF, L: ON
35	POWER_PWM	O	Frequency control of DC-DC_IC	
36	NAVI_RX	I	Communication with navigation system	
37	NAVI_TX	O	Communication with navigation system	
38	TV_MC_DATA/TV_MC_DATA	O	Data output to TV μ -com (For other destination than K and R)	
38	TV_MC_DATA/NC	O	(K,R destination)	
39	VCC1			
40	TV_SC_DATA/TV_SC_DATA	I	Data input from TV μ -com (For other destination than K and R)	
40	TV_SC_DATA/NC	O	(K,R destination)	
41	VSS			
42	TV_BP_CLK/TV_BP_CLK	O	Communication clock with TV μ -com (For other destination than K and R)	
42	TV_BP_CLK/NC	O	(K,R destination)	
43	NC	O		
44	TUN_SDA	I/O	Communication data with tuner	
45	TUN_SCL	O	Communication clock with tuner	
46	R_DATA/R_DATA	I	DATA input from RDS decoder (For other destination than X and (V))	
46	R_DATA/NC	O	(X, (V) destination)	
47	R_QUAL/R_QUAL	I	QUAL input from RDS decoder (For other destination than X and (V))	
47	R_QUAL/NC	O	(X, (V) destination)	
48	EVOL_MUTE0	O	E-VOL front mute	L: ON, H: OFF
49	EVOL_MUTE1	O	E-VOL rear mute	L: ON, H: OFF
50	EVOL_MUTE2	O	E-VOL C-SW mute	L: ON, H: OFF
51	EVOL_MUTEB	O	E-VOL_B-AVOUT mute	H: ON, L: OFF
52	EVOL_MUTE_C	O	E-VOL_C mute	L: ON, H: OFF
53	TV_JUDGE	I	Determination of TV_BOX if it is old or new	H: Old, L: New
54	WRT_E2P	I	Used when writing into E2P	L: Normal condition H: When writing into E2P
55	AVSW_PDN	O	Communication clock with AV switch	
56	VILL_R	O	Brightness control of "R" in variable illumination	
57	VSS			
58	VILL_G	O	Brightness control of "G" in variable illumination	
59	VCC2			
60	VILL_B	O	Brightness control of "B" in variable illumination	
61	NT_PAL	I	NTSC/PAL determination signal input	H: PAL, L: NTSC
62	VMUTE	O	LCD output mute control	H: MUTE, L: Normal
63	X0	O	Touch panel control	
64	VILL_DET	I	Variable illumination identification terminal	L: F3, H: F4

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description
65	OPEN_CLOSE	I	Z-MECHA OPEN/CLOSE	
66	Y0	O	Touch panel control	
67	INV_SW	O	Inverter free run frequency switching	
68	BL_ENA	O	Back light ON/OFF control	H: ON, L: OFF
69	NC	I	Reserve	
70	Z_SWT	I	Detection of panel mechanism	
71	SW_C	I	Detection of panel mechanism	
72	SW_B	I	Detection of panel mechanism	
73	SW_A	I	Detection of panel mechanism	
74	VCC2			
75	SMOTOR_M	O	Panel mechanism slide control	
76	VSS			
77	SMOTOR_P	O	Panel mechanism slide control	
78	TMOTOR_M	O	Panel mechanism tilt control	
79	TMOTOR_P	O	Panel mechanism tilt control	
80	AM+B	O	Tuner AM power supply ON/OFF control	H: ON, L: OFF
81	SI	O	SI control	L: ON, H: OFF
82	EJECT	I	Disk ejection	
83	BE_RESET	O	Reset request to back end	L: Reset, H: Clear reset
84	BE_RESERVE2	I	Operation identification terminal from back end	H: Valid, L: Invalid
85	BE_STBY	I	Standby request from back end	
86	BU_BUDET	O	Notification of momentary power down detection to back end	
87	BE_INI	O	Initial request to back end	
88	BE_SDATA	I	Communication data from back end	
89	BE_CLK	I	Communication clock with back end	
90	BE_MDATA	O	Communication data to back end	
91	VCC2			
92	TYPE1	I	Destination settings	Refer to Destination settings
93	VSS			
94	TYPE2	I	Destination settings	Refer to Destination settings
95	BE_CON	O	Control request to back end	
96	BE_MREQ	O	Request to back end	
97	DISC_DET	I	DVD mechanism function to detect if there is a disc or not.	H: There is no disc, L: There is a disc
98	NC	O		
99	Z_CNT	I	Detection of panel mechanism	
100	Z_SENS	I	Detection of panel mechanism	
101	NC	O		
102	VSY	I	VD (VSYNC) input	
103	BE_RESERVE1		CLK terminal for operation identification from back end	CLK frequency: 1Hz
104	BE_SREQ	I	Request from back end	
105	NC	O		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation Description
106	ILL_G	O	ON/OFF of other GREEN illumination than variable illumination	H: ON, L: OFF
107	ILL_R	O	ON/OFF of other RED illumination than variable illumination	H: ON, L: OFF
108	MCNT	O	Switching of power supply voltage to the panel drive mechanism	H: 7.5V, L: 5V
109	PGOOD	I	DC-DC power supply error detection	H: Normal, L: Error
110	P_START	O	DC-DC power supply ON/OFF control	
111	PON	O	SW power supply ON/OFF control	
112	NC	O		
113	REVERSE	I	Reverse detection	L: Detection, H: Normal
114	PARKING	I	Parking detection	L: Detection, H: Running
115	SIR_DET	I	Sirius connection detection	L: Detection, H: Not-connected
116	ANT_CON	O	Power antenna control	H: UP, L: DOWN
117	P_CON	O	P-CON control	L: STANDBY, POWER OFF, H: EXCEPT
118	ILLUMI	I	Illumination detection	L: ON, H: OFF
119-121	NC	O		
122	TYPE0	I	Destination settings	Refer to Destination settings
123	KEY2	I	Key 2 input	Refer to KEY2
124	TUN_IFC	I	F/E IFC input	H: Station found, L: Station not found
125	TUN_SMET	I	S meter input	
126	R_NOISE	I	FM noise input	
127	R_AFS_H	I/O	Time constant switching when F/E noise is detected.	
128,129	NC	O		
130	VSS			
131	NC	O		
132	VCC1			
133	KEY1	I	Key 1 input	Refer to KEY1
134	NC	O		
135	PWIC_STBY	O	Power IC standby	H: ON, L: OFF
136	VCOM	I	For VCOM level automatic adjustment	
137	X_DATA	I	Touch data input	
138	Y_DATA	I	Touch data input	
139	LINE_MUTE	I	LINE-MUTE input detection	Normal: 1.6V, TEL MUTE: 1V or less, NAVI MUTE: 2.5V or higher
140	AVSS			
141	PWIC_DC_DET	I	SP output DC offset detection	L: When detected
142	VREF			
143	AVCC			
144	EVOL_SCL/EVOL_SCL	O	Communication clock with E-VOL	
144	EVOL_SCL/E2P_SCL	O	Communication clock with E2P	

MICROCOMPUTER'S TERMINAL DESCRIPTION

Destination settings of KVT/DDX/DNX

MODEL	Destination	TYPE2	TYPE1	TYPE0
KVT	K	0	0	*
	E	0	0	*
	M	0	0	*
	V/X	0	0	*
	R	0	0	*
DDX	K	0	1	*
	E	0	1	*
	M	0	1	*
	V/X	0	1	*
	R	0	1	*
DNX	K	1	1	*
	E	1	1	*
	M	1	1	*
	V/X	1	1	*
	R	1	1	*

TYPE0 is AD input.

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

• TYPE0 Setup Voltage

Power supply voltage	Number of destinations	Pull up resistor
3.3	5	10

Destination	μ-com setup value		Pull down resistor	Pull up resistor
	min	max		
K	0.00	0.41	10	None
E	0.42	1.23	3.3	10
M	1.24	2.06	10	10
V/X	2.07	2.88	30	10
R	2.89	3.30	None	10

KEY1 Settings

Power supply voltage	Number of keys	Pull up resistor
5	4	12

	Name of key	μ-com setup value		Resister value
		min	max	
KEY1	SCRN/▶▶	0.00	0.69	0.2
KEY2	FNC/■	0.70	1.92	3.9
KEY3	SRC/SRC	1.93	3.15	8.2
KEY4	NAV/-	3.16	4.38	24
NO KEY		4.39	5.00	

When opened / When closed

When being pushed and held for a while

KEY2: TEL, KEY4: V.OFF (E), RCAM (K,R,M,X)

KEY2 Settings

Power supply voltage	Number of keys	Pull up resistor
5	8	12

	Name of key	μ-com setup value		Resister value
		min	max	
KEY1	VOL-	0.00	0.42	0.3
KEY2	ATT	0.43	1.03	1.8
KEY3	VOL+	1.04	1.64	2.2
KEY4	AUTO	1.65	2.25	3.3
KEY5	AM	2.26	2.86	5.1
KEY6	FM	2.87	3.47	8.2
KEY7	SEEK DOWN	3.48	4.08	16
KEY8	SEEK UP	4.09	4.69	51
NO KEY		4.70	5.00	

When being pushed and held for a while

KEY2: LOUD (K,R,X)

ADJUSTMENT

1. Flicker adjustment

● Condition

Video source: VIDEO

Video: RAMP

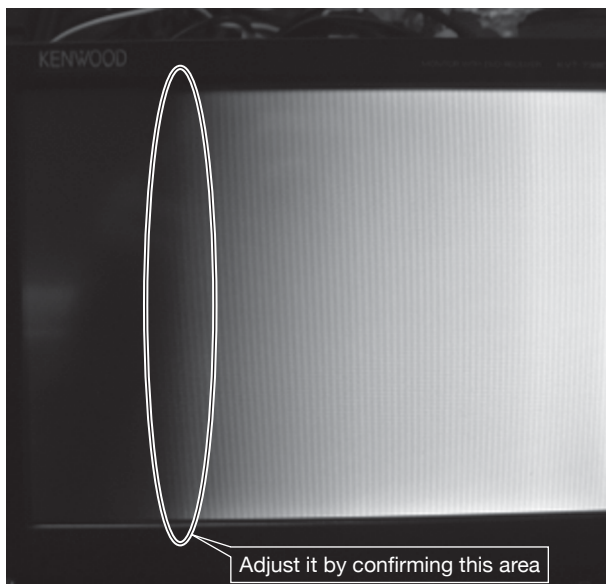
BRIGHT: MAX

MODE: FULL

● Adjustment procedure

- ① Display RAMP.
- ② Rotate VR200: X35-496 until the leading edge of black area reaches far right of the screen. As shown in the next picture, the edge is now located at about 1/5 of the screen width from the left of the screen. (At the completion of this adjustment, most of the screen will be in black.)

The position where the adjustment is best completed can be shown darkest and clearest.



Example: Keep rotating the VR200 so that the black area is gradually expanded (to the right), and if you rotate the VR200 too much, the black area will start shrinking. So when you see the black area starts shrinking, rotate the VR200 backward a bit to make the adjustment relatively stable.

2. VCOM Amplitude and AGC and WB Automatic adjustments

● Adjustment Method

- ① Input 100% (white) in AV-IN.
- ② Press Auto Adjust on the Test Mode Main screen.



- ③ Press Auto Adjust Start.



- ④ After the automatic adjustment, "Auto Set OK" will be shown to indicate the completion of the adjustment.

ADJUSTMENT

3. Adjustment of Horizontal display start position and pixel

● Video displayed on Adjustment screen

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

NAVI: Input KNA-DV3200 or KNA-G520

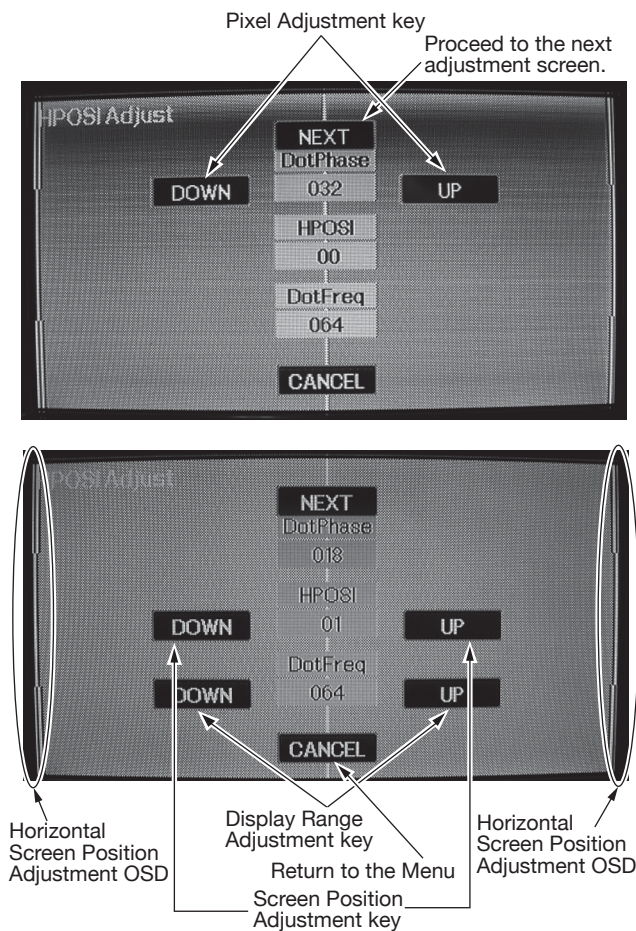
● Default Value

Pixel Adjustment key (DOT_PHASE): Adjustment of horizontal display position of pixel (Default: 32)

Screen Position Adjustment key (HPOSI): Adjustment of horizontal display starting position of the entire screen (Default: 0)

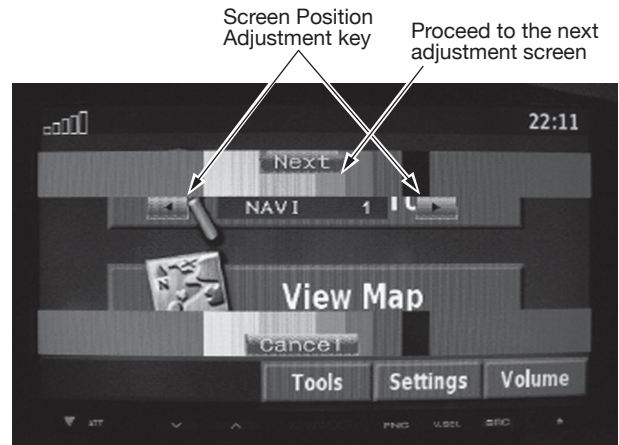
Display Range Adjustment key (DOT_FREQ): Adjustment of horizontal display range of the video (Default: 64)

● GRAPHIC Adjustment screen



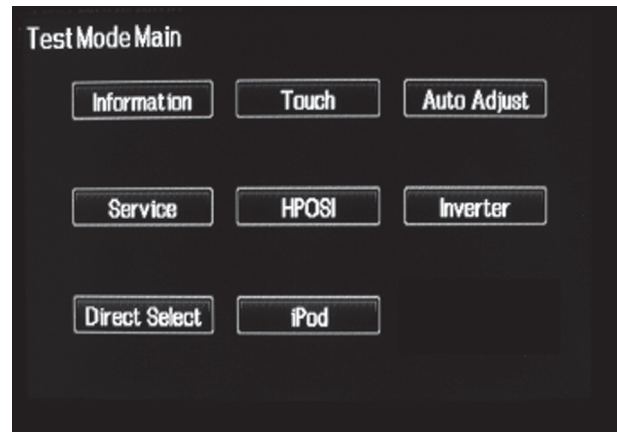
● NAVI Adjustment screen

Adjustment screen changes depending on what type (model) of NAVI is connected.



● Adjustment Procedure

- 1 Press HPOSI on the Test Mode Main screen.



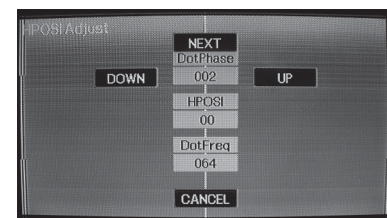
- 2-1 Graphic (DotPhase)

Then, adjust the Pixel Adjustment key so that the screen becomes gray.

After the completion of the adjustment, press "NEXT".

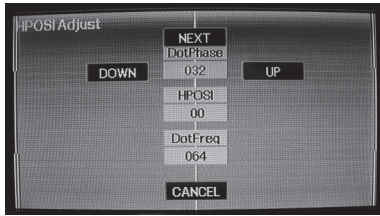
- Pixel Adjustment: GRAPHIC

OK



ADJUSTMENT

NG



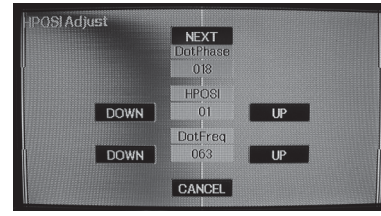
Enlarge OK



Enlarge NG

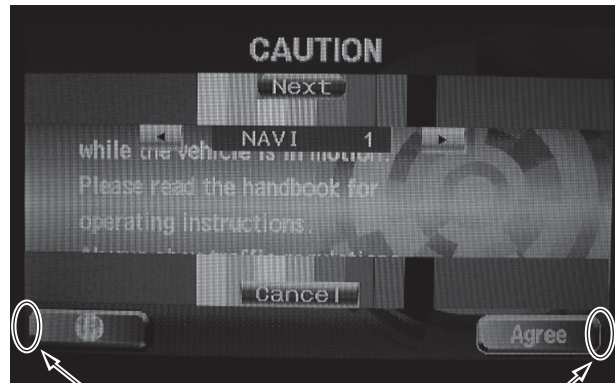


NG



②-2-1 NAVI (In case of KNA-DV3200)

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

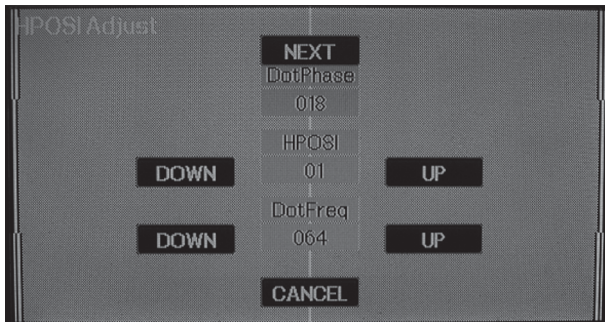


Adjust the screen such that KEY (gap) at the right and left sides becomes symmetrical.

②-2 Graphic (HPOSI)

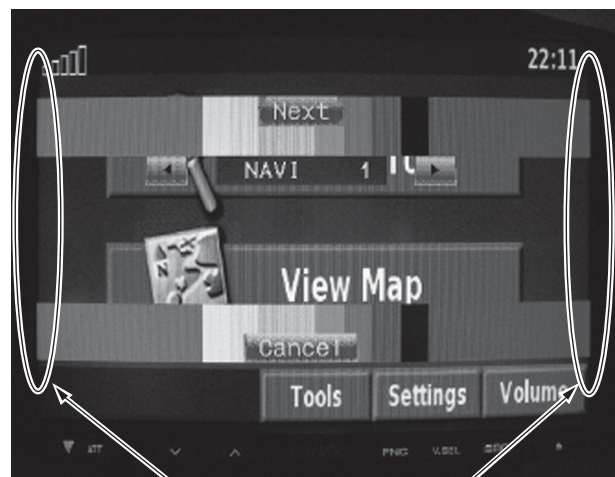
Adjust the Screen Adjustment key so that the screen becomes horizontally symmetrical.

- Screen Position Adjustment: GRAPHIC



②-2-2 NAVI (In case of KNA-G520)

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

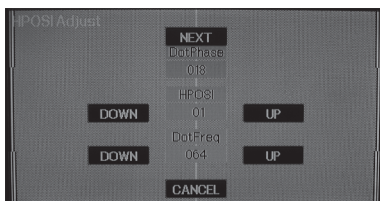


Adjust the space to become horizontal symmetry

②-3 Graphic (DotFreq)

Then, adjust the Display Range Adjustment key so that there is no vertical black stripes (blur) on the screen. After the completion of the adjustment, press "NEXT".

- Adjustment of display range: GRAPHIC
OK



ADJUSTMENT

Enlarge OK

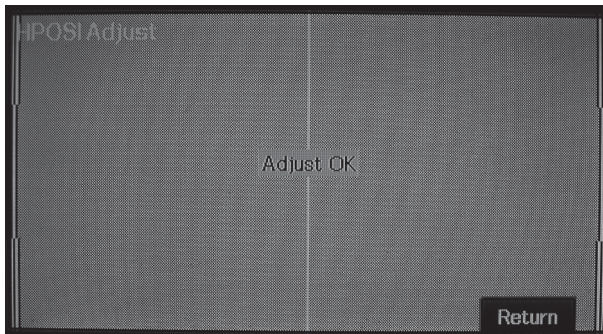


Enlarge OK



● Confirmation after adjustment

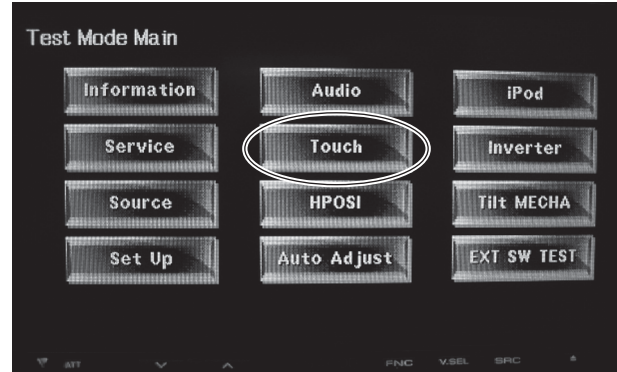
After the adjustment, check that the screen is horizontally symmetrical and that there is no blur on the screen. The "HPOSI OK" will be shown to indicate the completion of the adjustment.



4. Touch panel adjustment

● Adjustment procedure

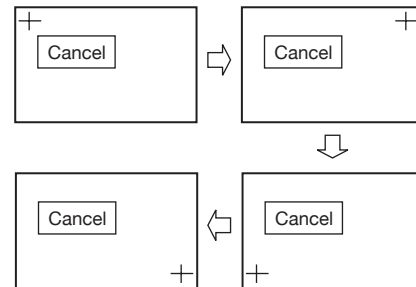
- ① Press the Touch Key on the Test Mode Menu screen to enter the Touch panel adjustment screen.



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

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

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



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

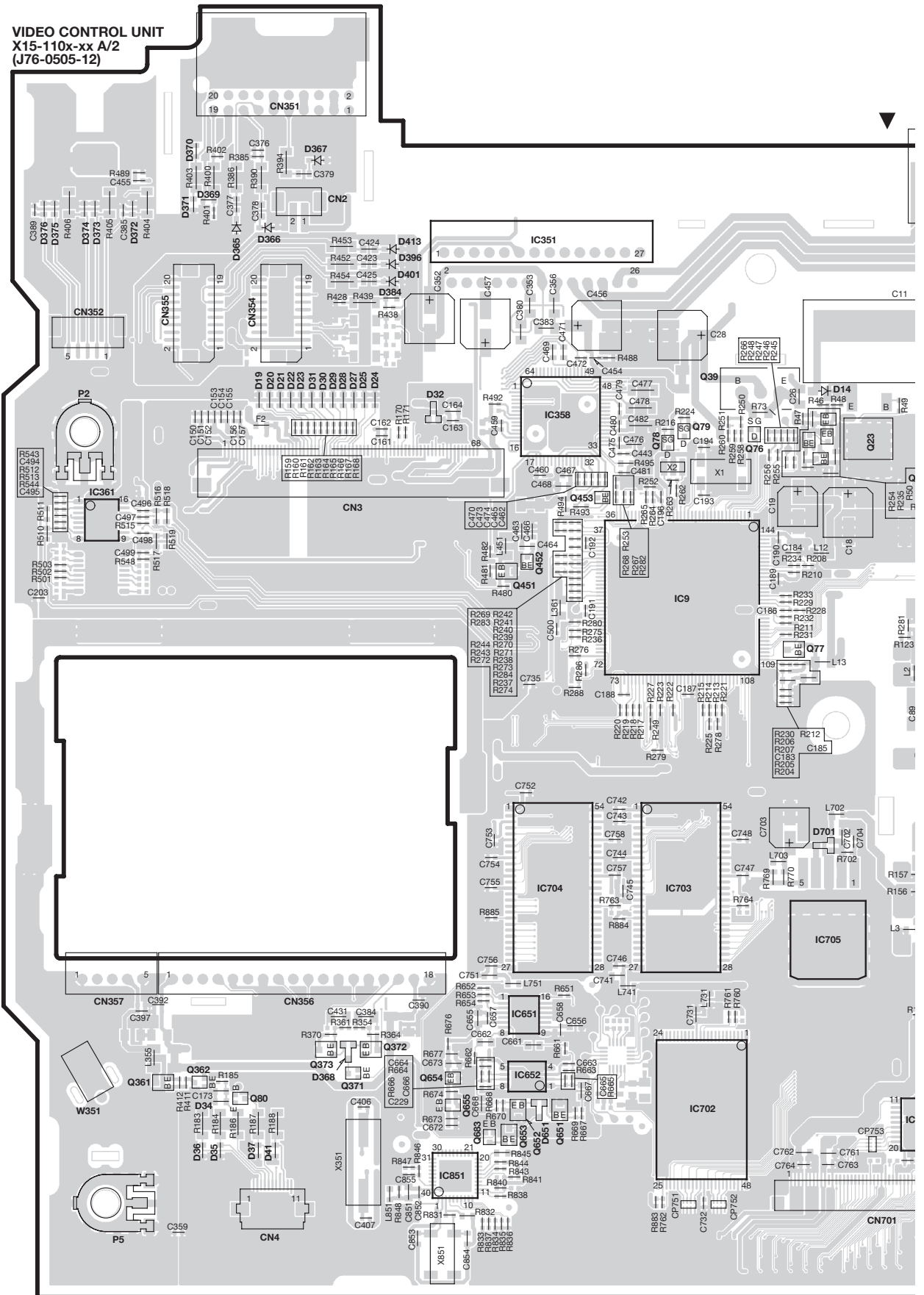
Note

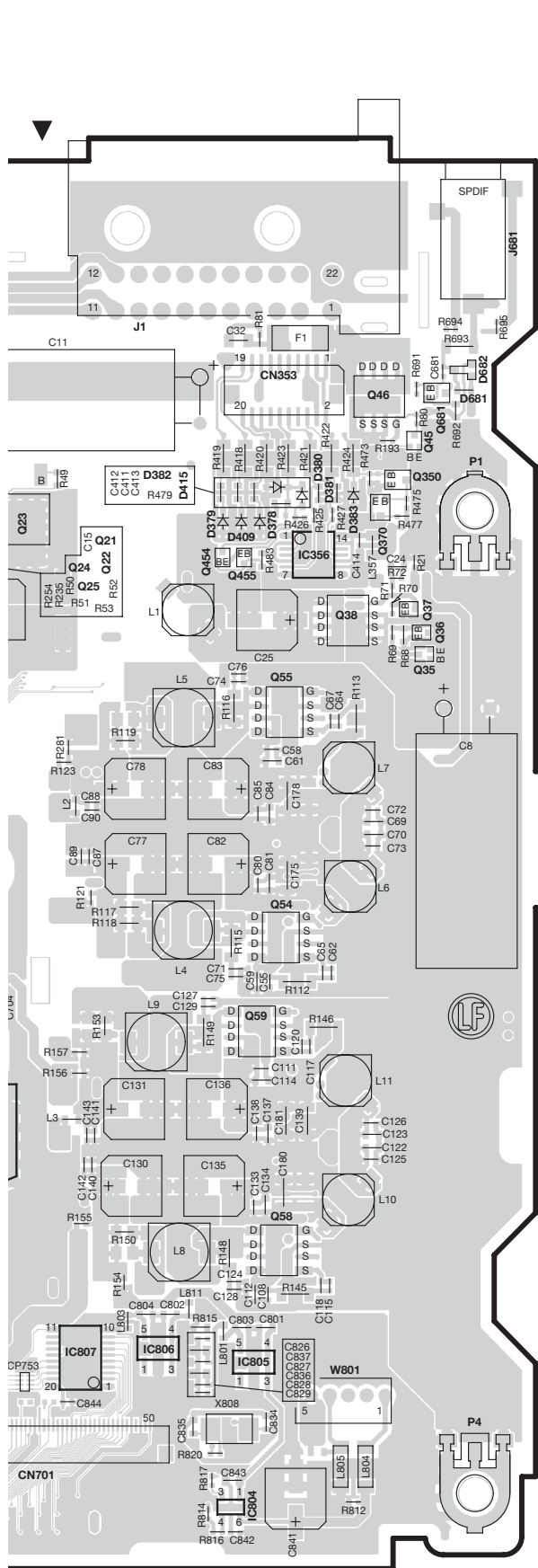
The touch panel adjustment data is finalized when the touch stick is released from the mark.

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

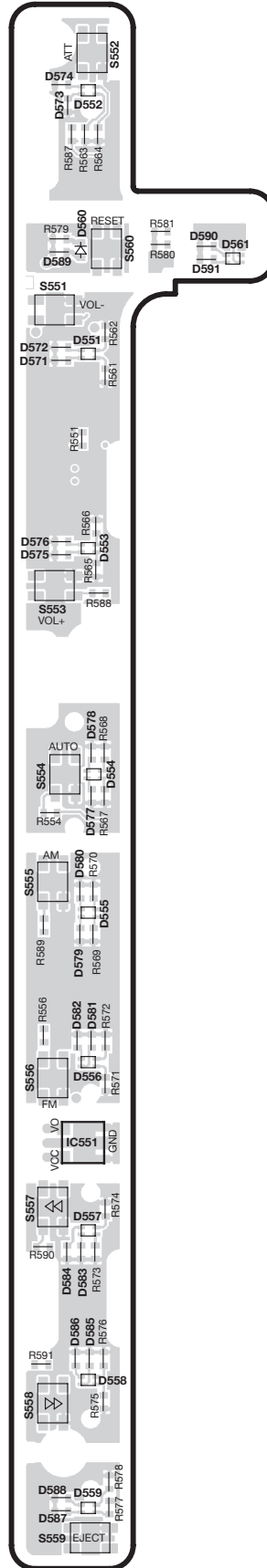
Then, quickly and vertically release the stick from the screen.

PC BOARD (COMPONENT SIDE VIEW)





X15 B/2



X15-110x-xx

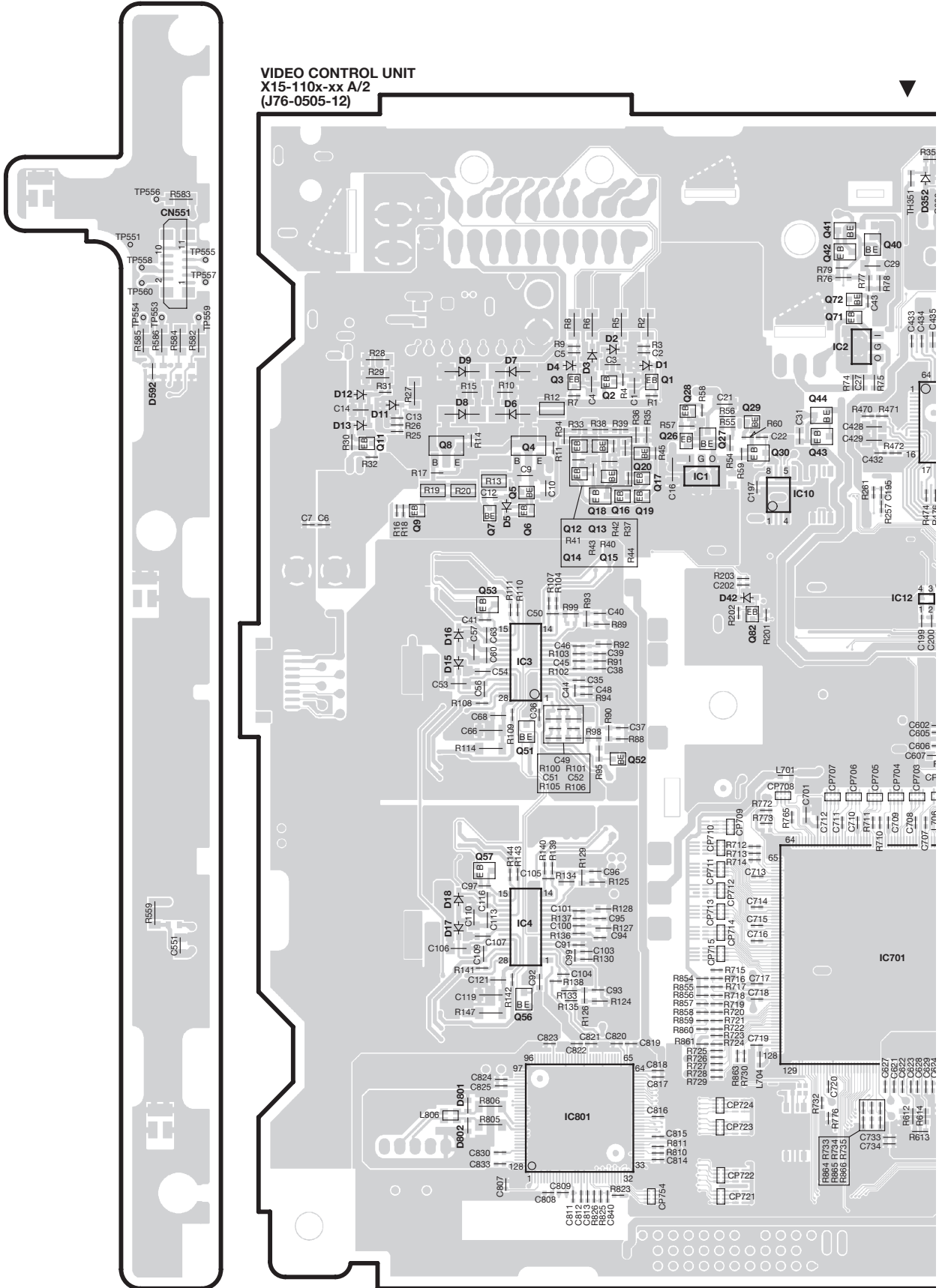
Ref. No.	Address	Ref. No.	Address
IC9	4D	Q54	5G
IC351	2D	Q55	4G
IC356	3G	Q58	6G
IC358	3D	Q59	5F
IC361	3B	Q76	3E
IC551	6H	Q77	4E
IC651	6D	Q78	3D
IC652	6D	Q79	3E
IC702	6E	Q80	6B
IC703	5D	Q350	3G
IC704	5D	Q361	6B
IC705	5E	Q362	6B
IC804	7F	Q370	3G
IC805	6F	Q371	6C
IC806	6F	Q372	6C
IC807	6F	Q373	6C
IC851	7C	Q451	4D
Q21	3F	Q452	4D
Q22	3F	Q453	3D
Q23	3E	Q454	3F
Q24	3F	Q455	3F
Q25	3F	Q651	6D
Q35	4G	Q652	6D
Q36	4G	Q653	6D
Q37	4G	Q654	6C
Q38	4G	Q655	6C
Q39	3E	Q681	3G
Q45	3G	Q683	6C
Q46	3G		

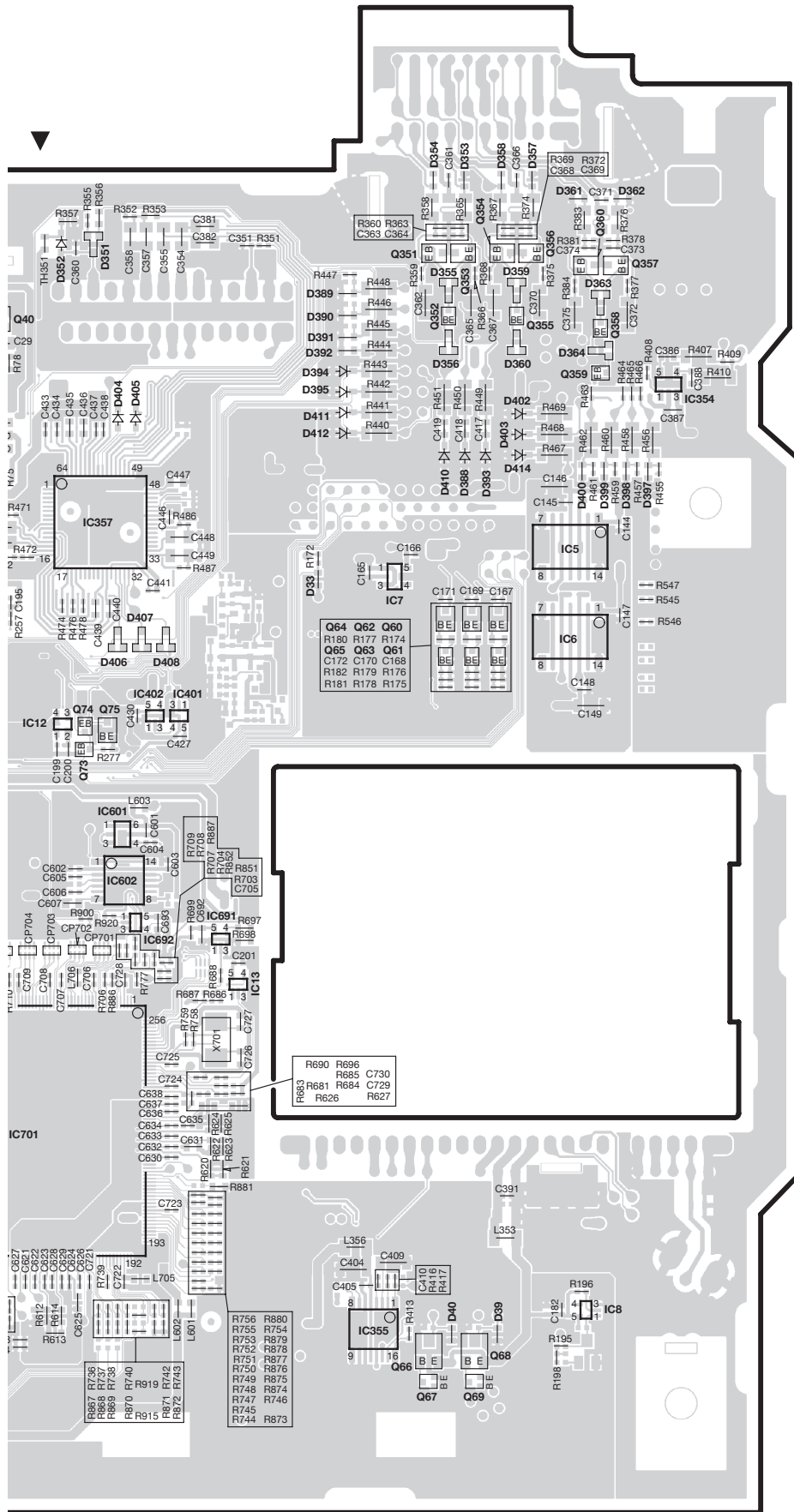
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (FOIL SIDE VIEW)

X15 B/2

VIDEO CONTROL UNIT
X15-110x-xx A/2
(J76-0505-12)





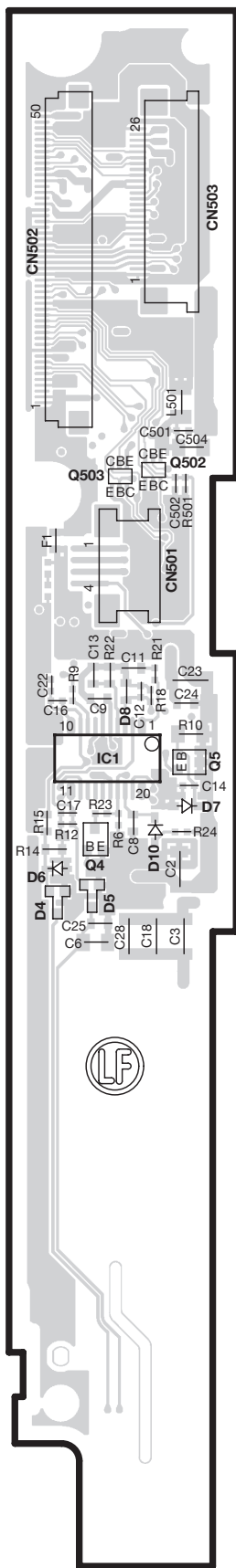
X15-110x-xx

Ref. No.	Address	Ref. No.	Address
IC1	3N	Q26	3N
IC2	3O	Q27	3O
IC3	4N	Q28	3N
IC4	5N	Q29	3O
IC5	3R	Q30	3O
IC6	4R	Q40	2O
IC7	4Q	Q41	2O
IC8	6R	Q42	2O
IC10	4O	Q43	3O
IC12	4O	Q44	3O
IC13	5P	Q51	5N
IC354	3R	Q52	5N
IC355	6Q	Q53	4M
IC357	3P	Q56	6N
IC401	4P	Q57	5M
IC402	4P	Q60	4Q
IC601	4P	Q61	4Q
IC602	5P	Q62	4Q
IC691	5P	Q63	4Q
IC692	5P	Q64	4Q
IC701	6O	Q65	4Q
Q1	3N	Q67	7Q
Q2	3N	Q68	6Q
Q3	3N	Q69	7Q
Q4	3N	Q71	3O
Q5	4N	Q72	3O
Q6	4N	Q73	4P
Q7	4M	Q74	4P
Q8	3M	Q75	4P
Q9	4M	Q82	4O
Q11	3M	Q351	2Q
Q12	4N	Q352	2Q
Q13	4N	Q353	2Q
Q14	4N	Q354	2Q
Q15	4N	Q355	2R
Q16	4N	Q356	2R
Q17	3N	Q357	2R
Q18	4N	Q358	2R
Q19	4N	Q359	3R
Q20	3N	Q360	2R

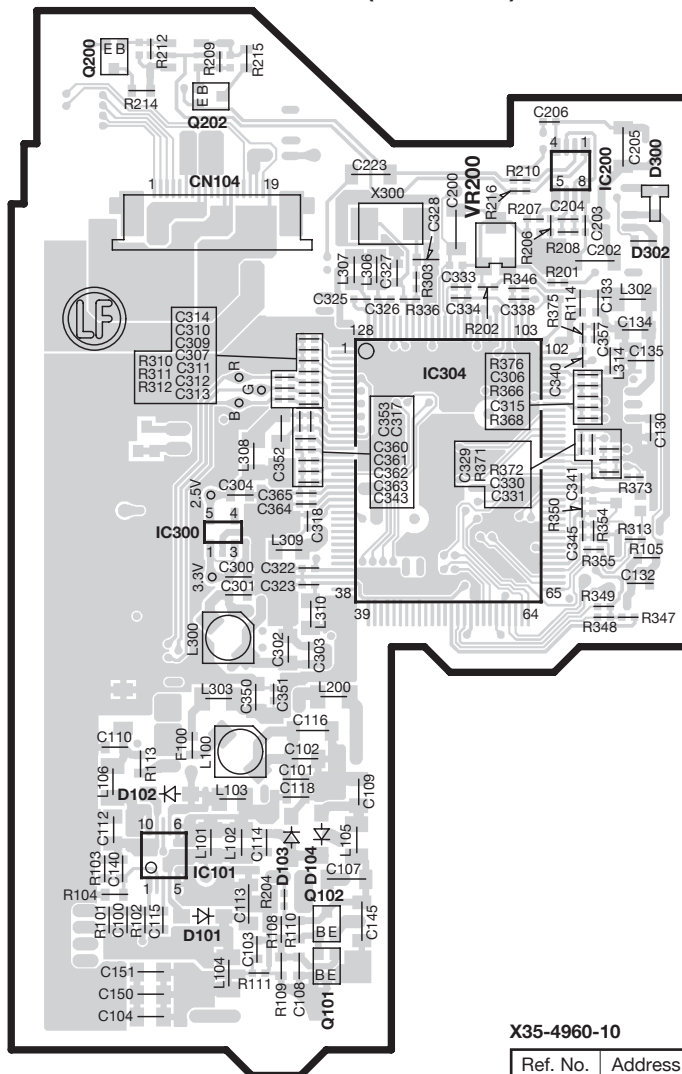
Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (COMPONENT SIDE VIEW)

X35 B/2



VIDEO UNIT X35-4960-10 A/2 (J76-0519-12)



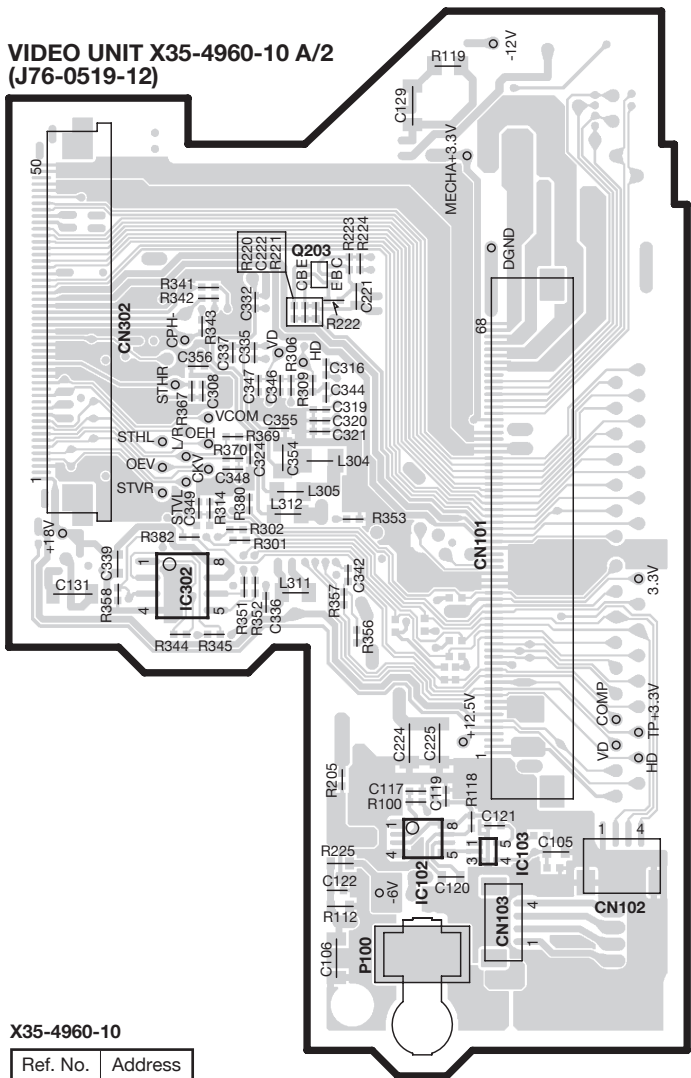
X35-4960-10

Ref. No.	Address
IC1	4V
IC101	4W
IC200	2Y
IC300	3W
IC304	3X
Q4	4V
Q5	4V
Q101	5X
Q102	4X
Q200	2W
Q202	2W
Q502	3V
Q503	3V

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

PC BOARD (FOIL SIDE VIEW)

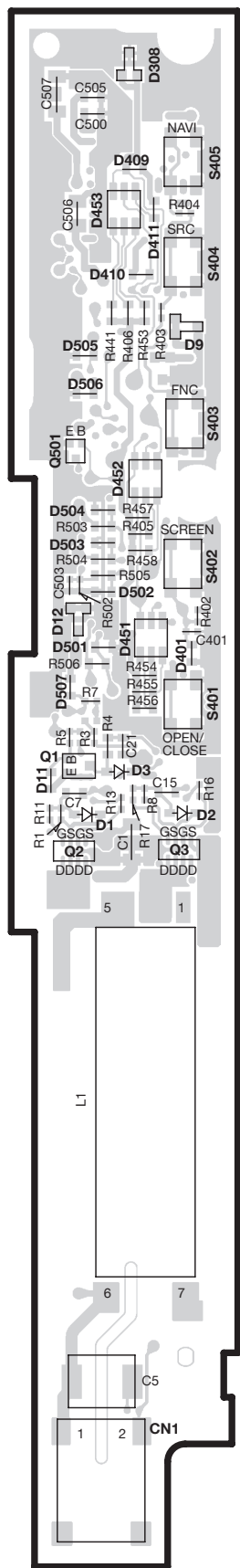
VIDEO UNIT X35-4960-10 A/2 (J76-0519-12)



X35-4960-10

Ref. No.	Address
IC102	4AB
IC103	4AB
IC302	3AA
Q1	4AC
Q2	4AC
Q3	4AC
Q203	2AA
Q501	3AC

X35 B/2

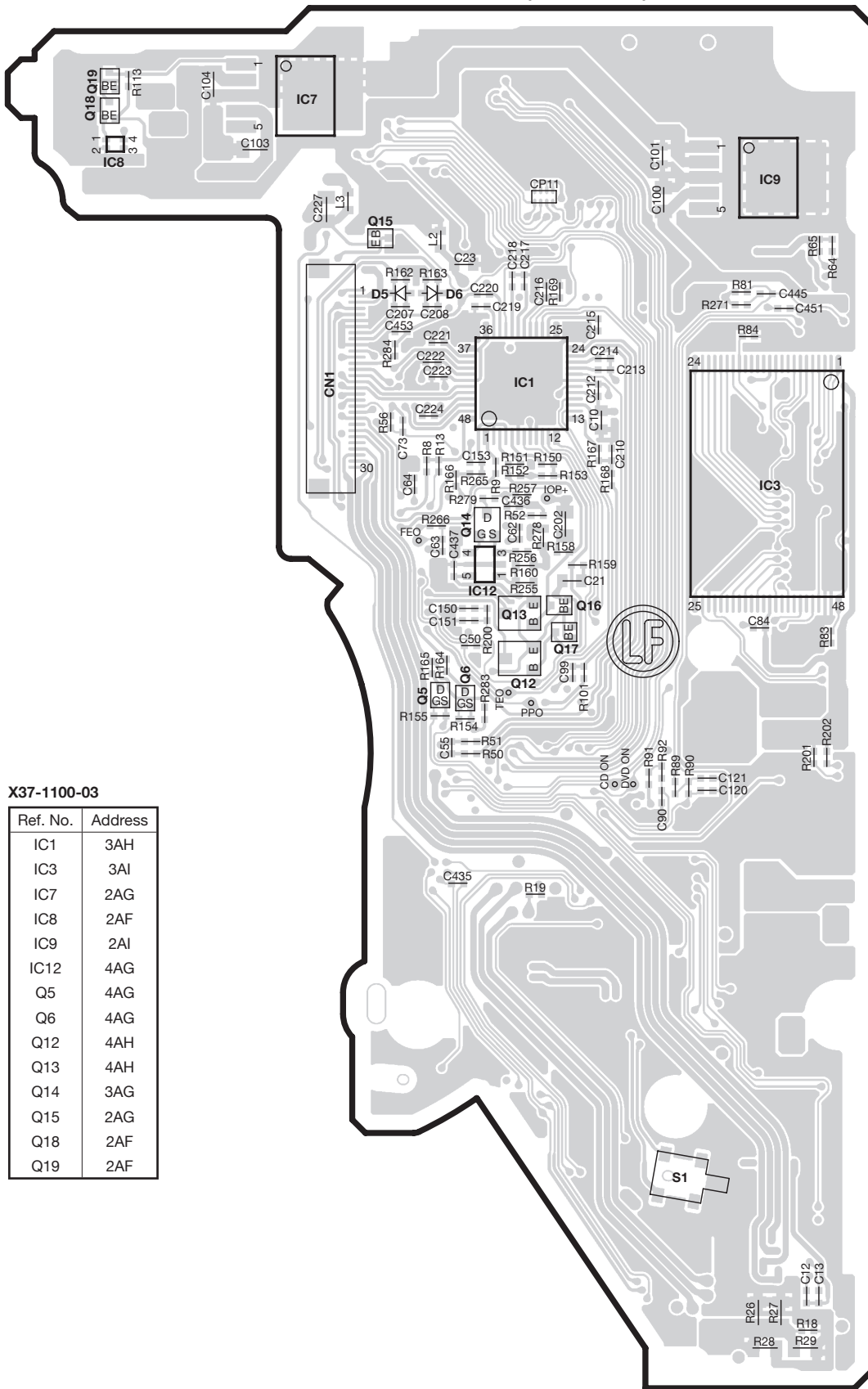


Refer to the schematic diagram for the values of resistors and capacitors.

KVT-50DVDRY/512/522DVD
/522DVDY/532DVD/532DVDM

PC BOARD (COMPONENT SIDE VIEW)

DVD UNIT X37-1100-03 (J76-0160-22)



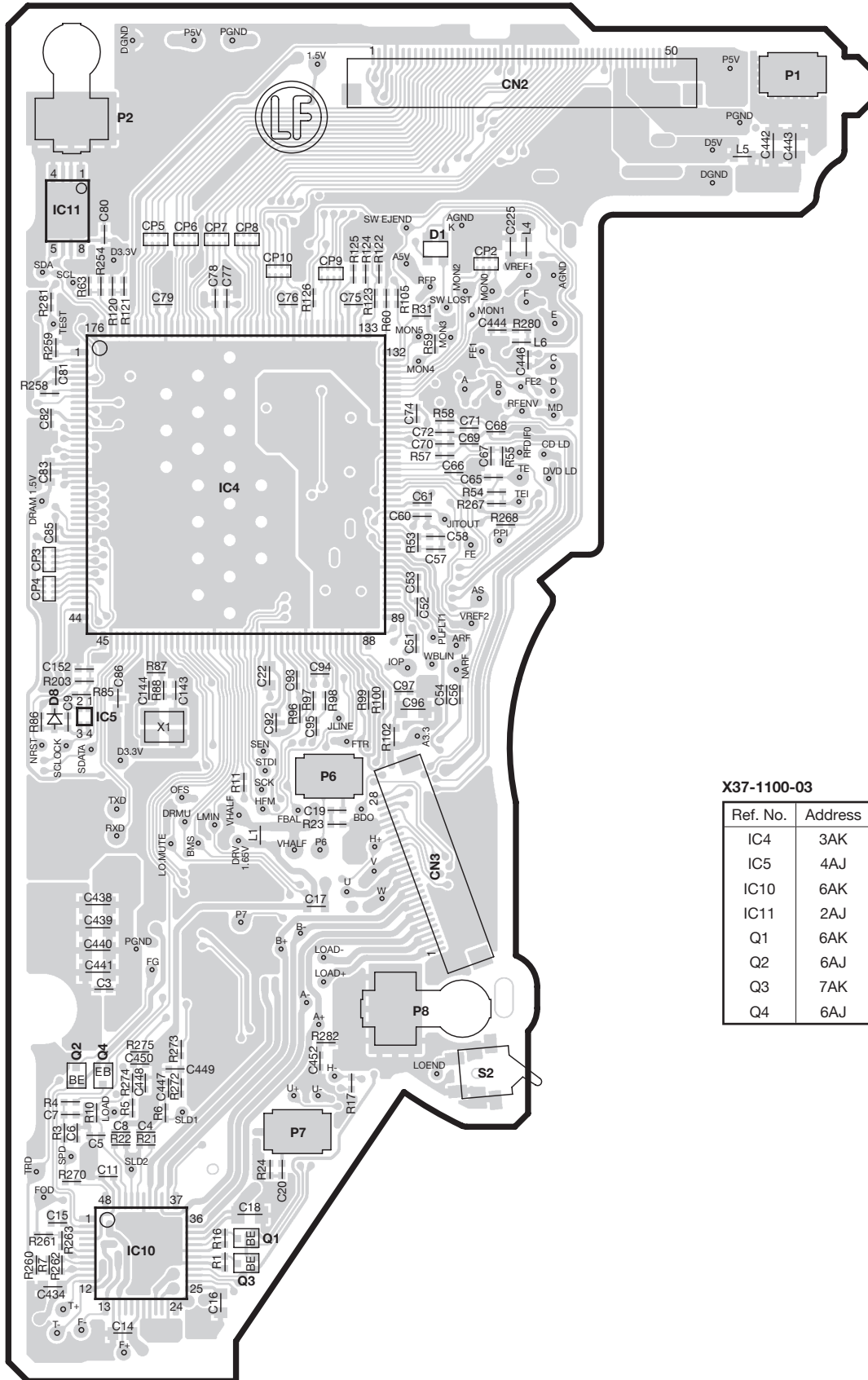
X37-1100-03

Ref. No.	Address
IC1	3AH
IC3	3AI
IC7	2AG
IC8	2AF
IC9	2AI
IC12	4AG
Q5	4AG
Q6	4AG
Q12	4AH
Q13	4AH
Q14	3AG
Q15	2AG
Q18	2AF
Q19	2AF

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

PC BOARD (FOIL SIDE VIEW)

DVD UNIT X37-1100-03 (J76-0160-22)

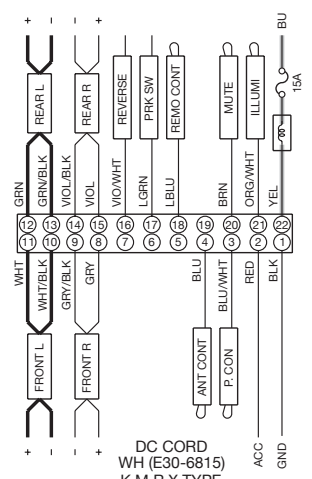
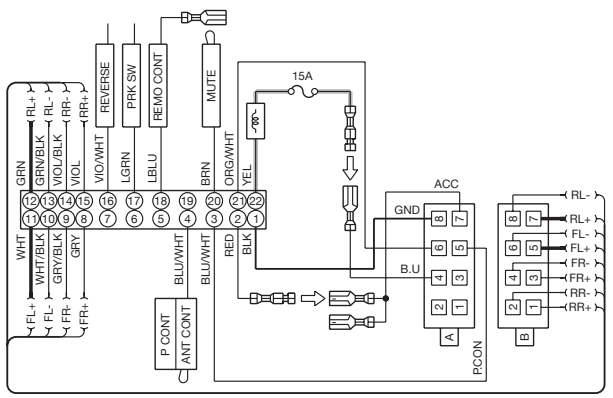
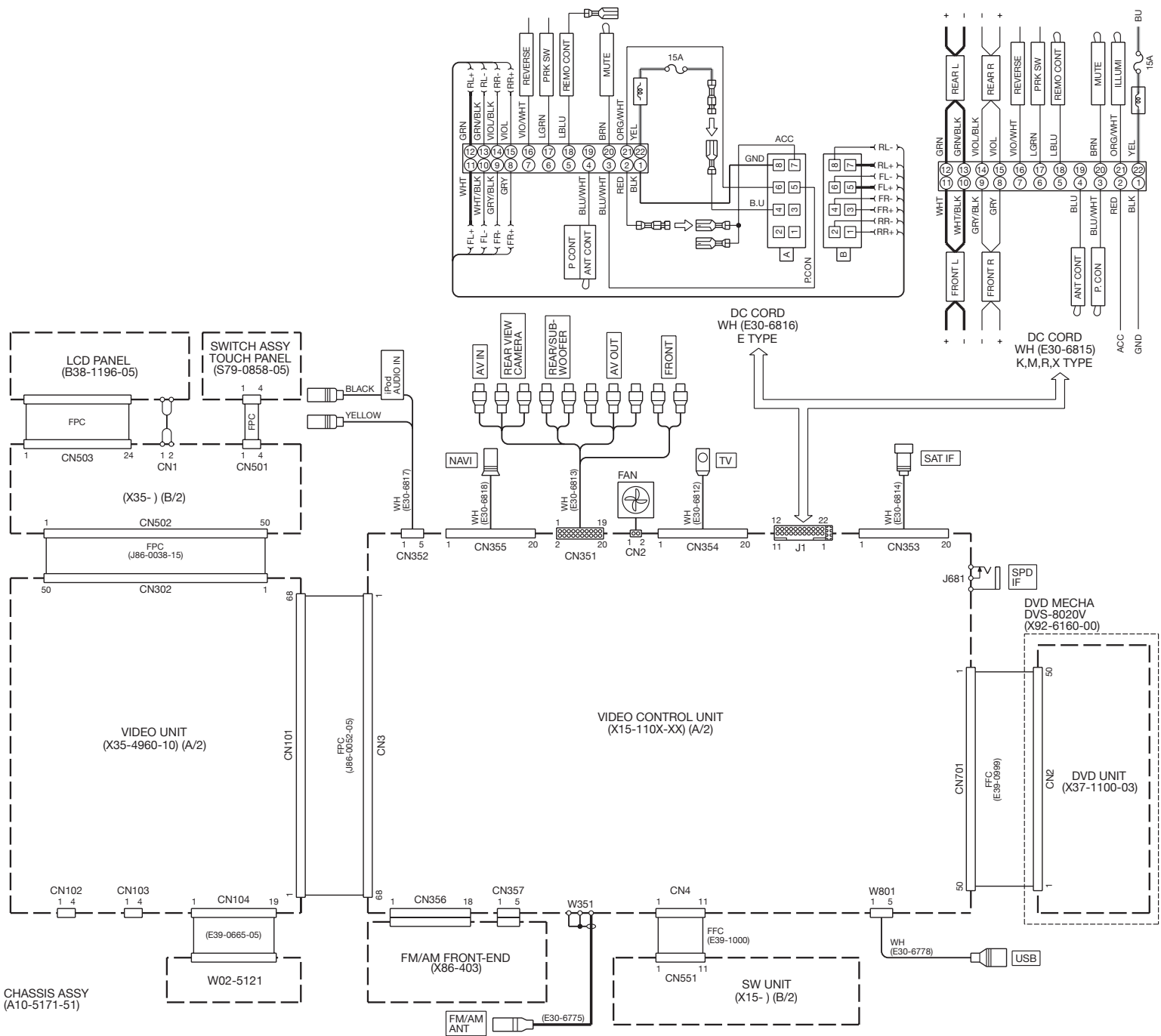


X37-1100-03

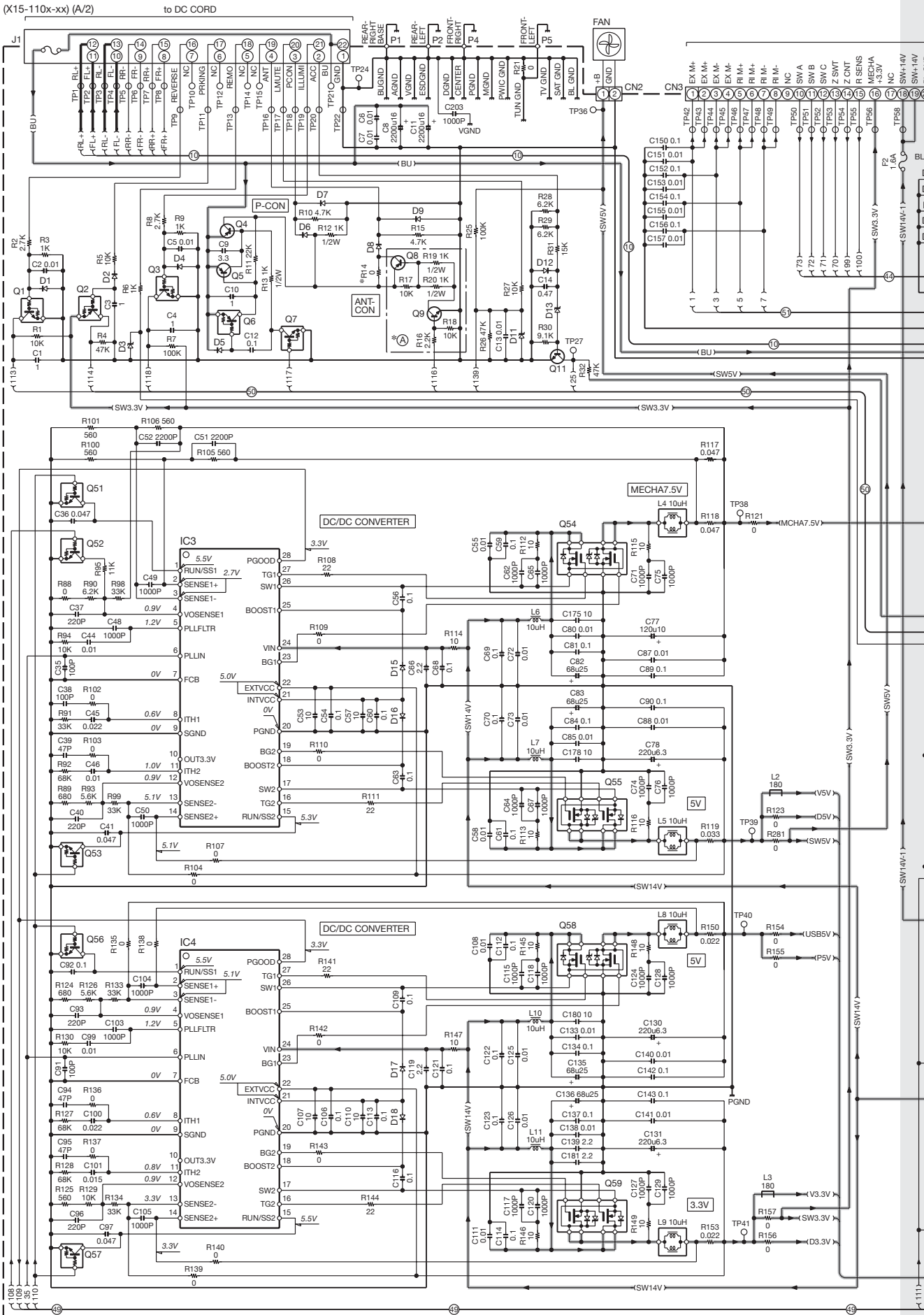
Ref. No.	Address
IC4	3AK
IC5	4AJ
IC10	6AK
IC11	2AJ
Q1	6AK
Q2	6AJ
Q3	7AK
Q4	6AJ

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

INTERCONNECTION DIAGRAM

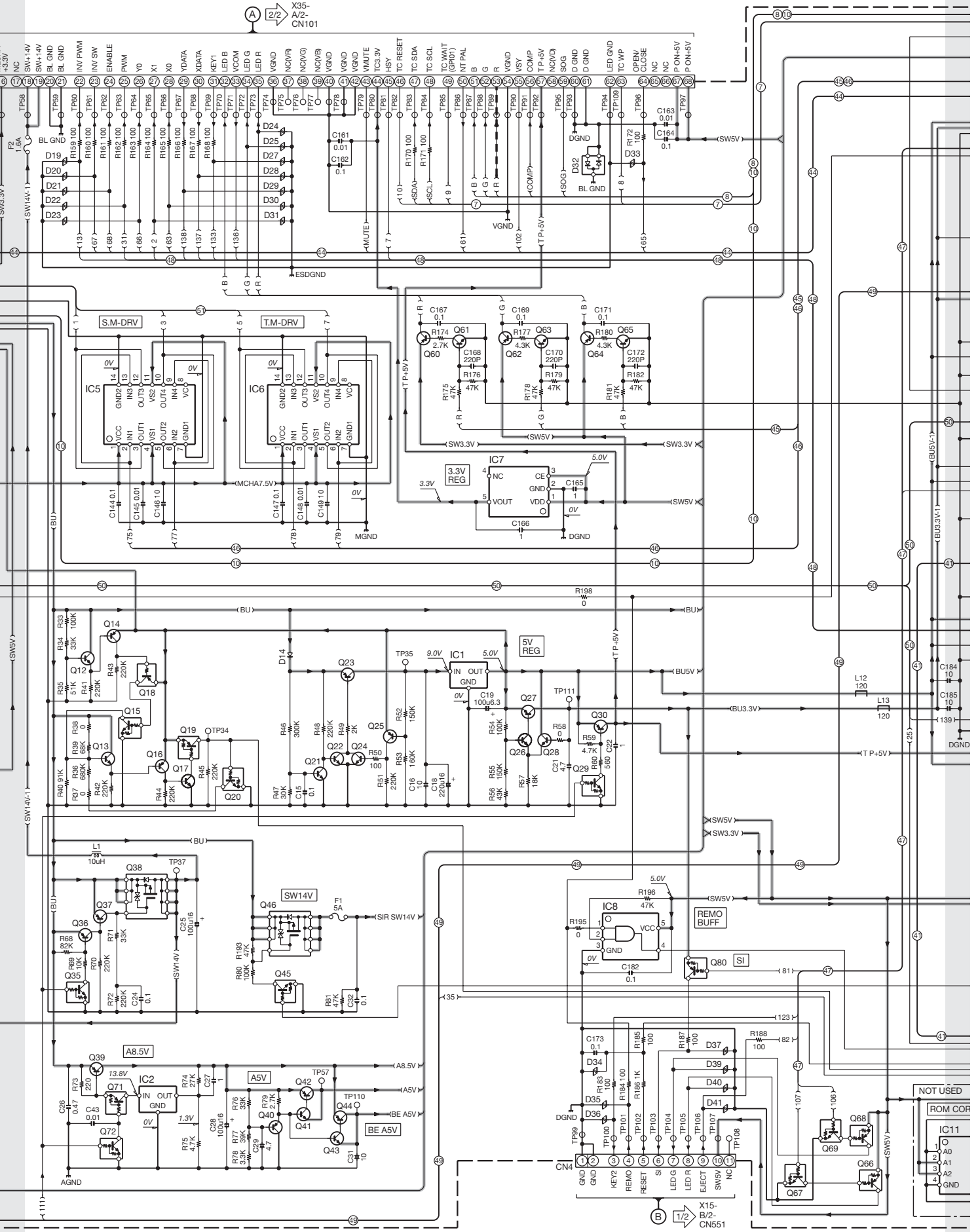


KVT-50DVDRY/512/522DVD /522DVDY/532DVD/532DVDM

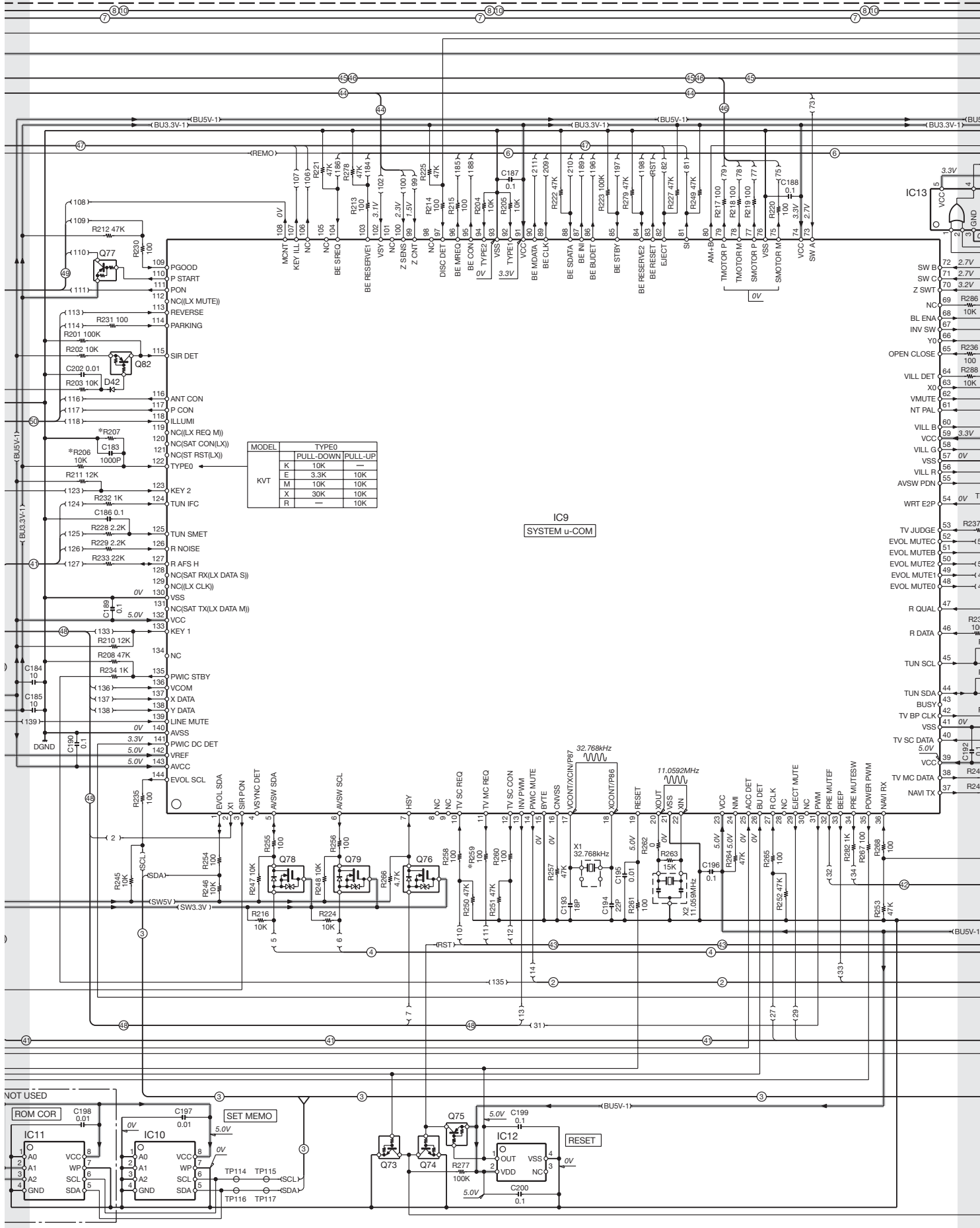


KVT-50DVD/512/522DVD
/522VDY/532DVD/532VDYM

X35-A/2-CN101



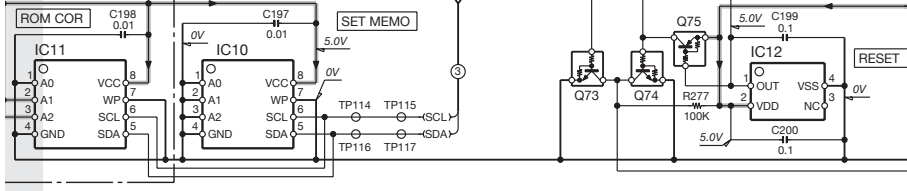
KVT-50DVD/512/522DVD /522DVDY/532DVD/532DVDM



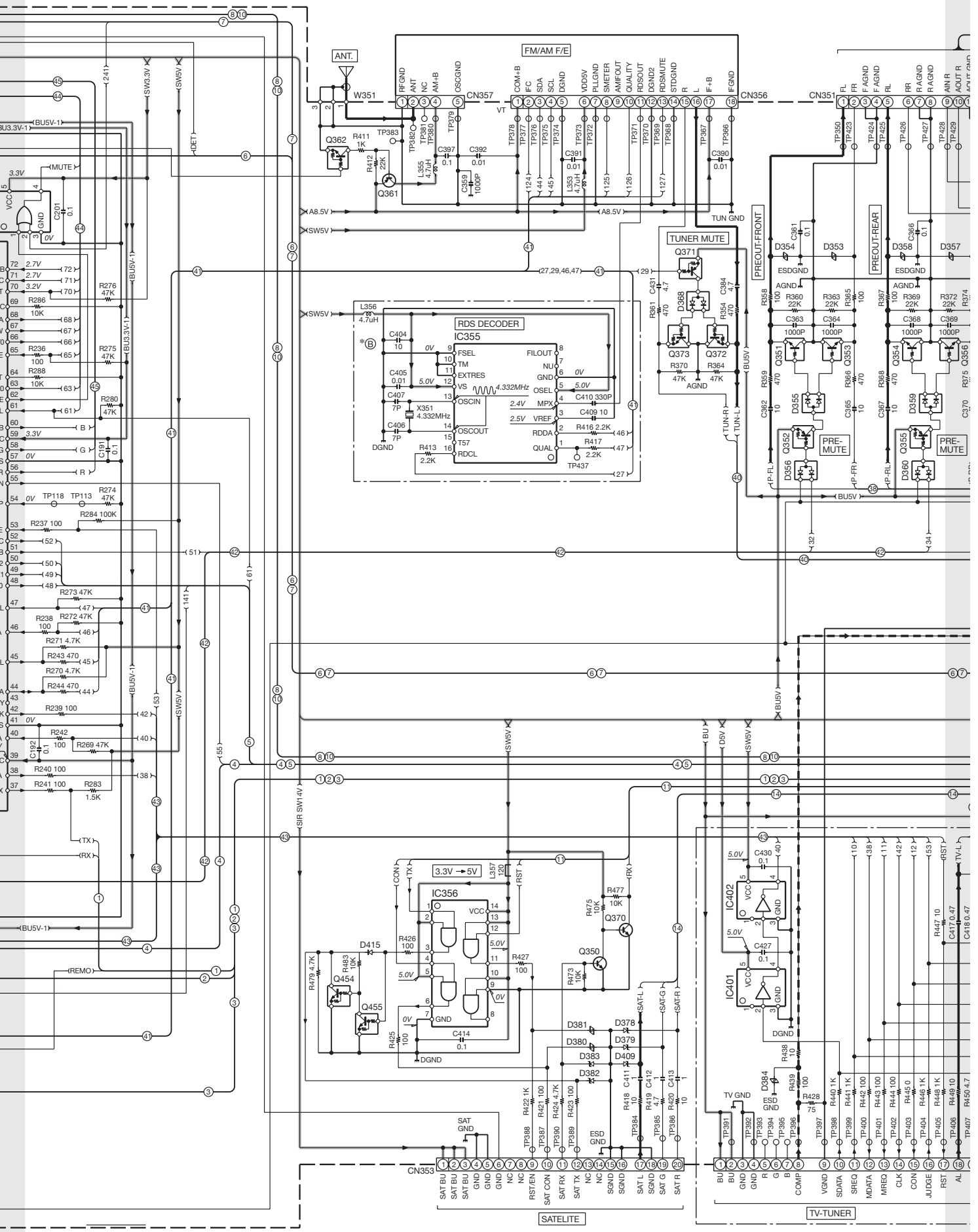
MODEL	TYPE0	
	PULL-DOWN	PULL-UP
K	10K	—
E	3.3K	10K
M	10K	10K
X	30K	10K
R	—	10K

IC9 SYSTEM u-COM

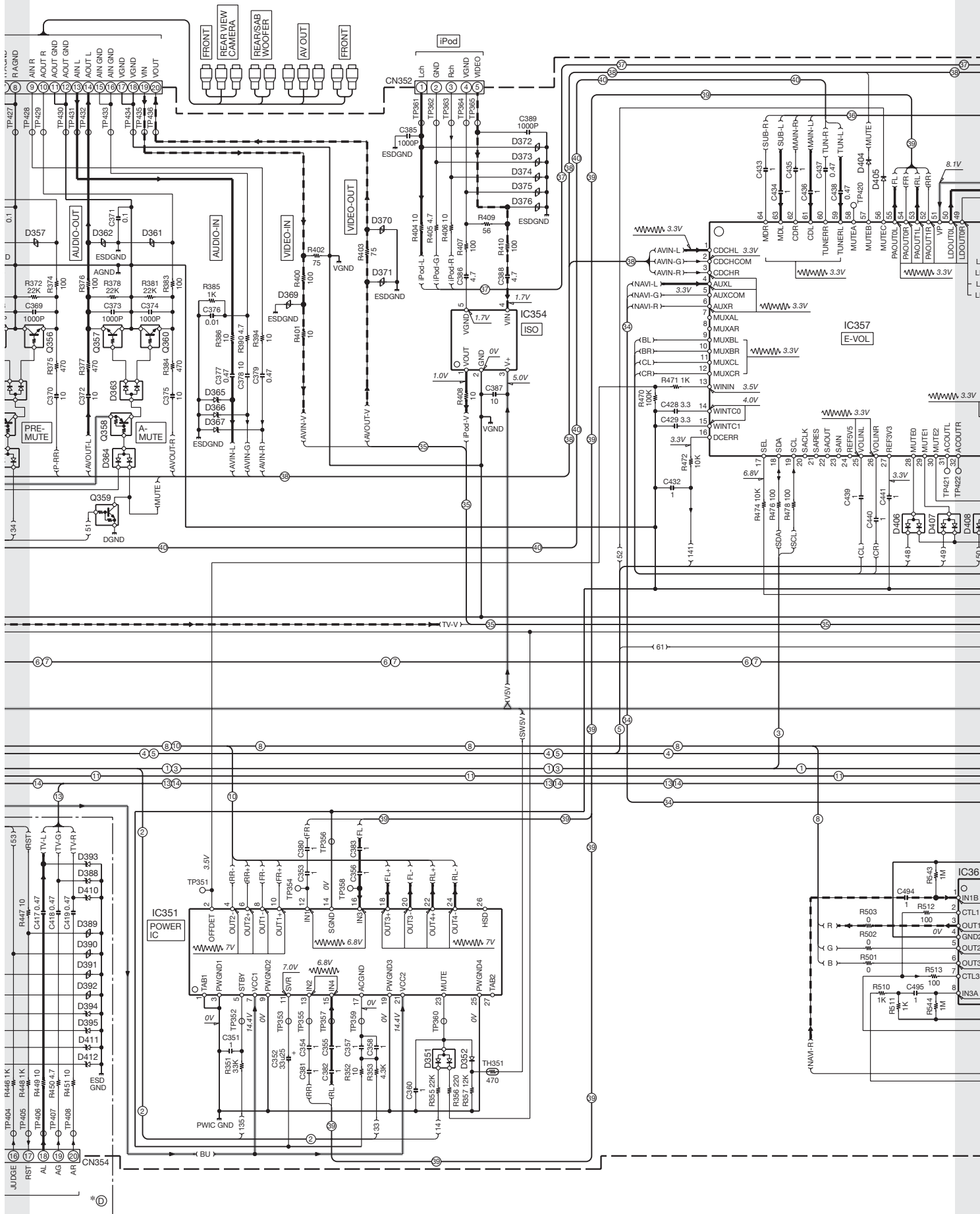
NOT USED

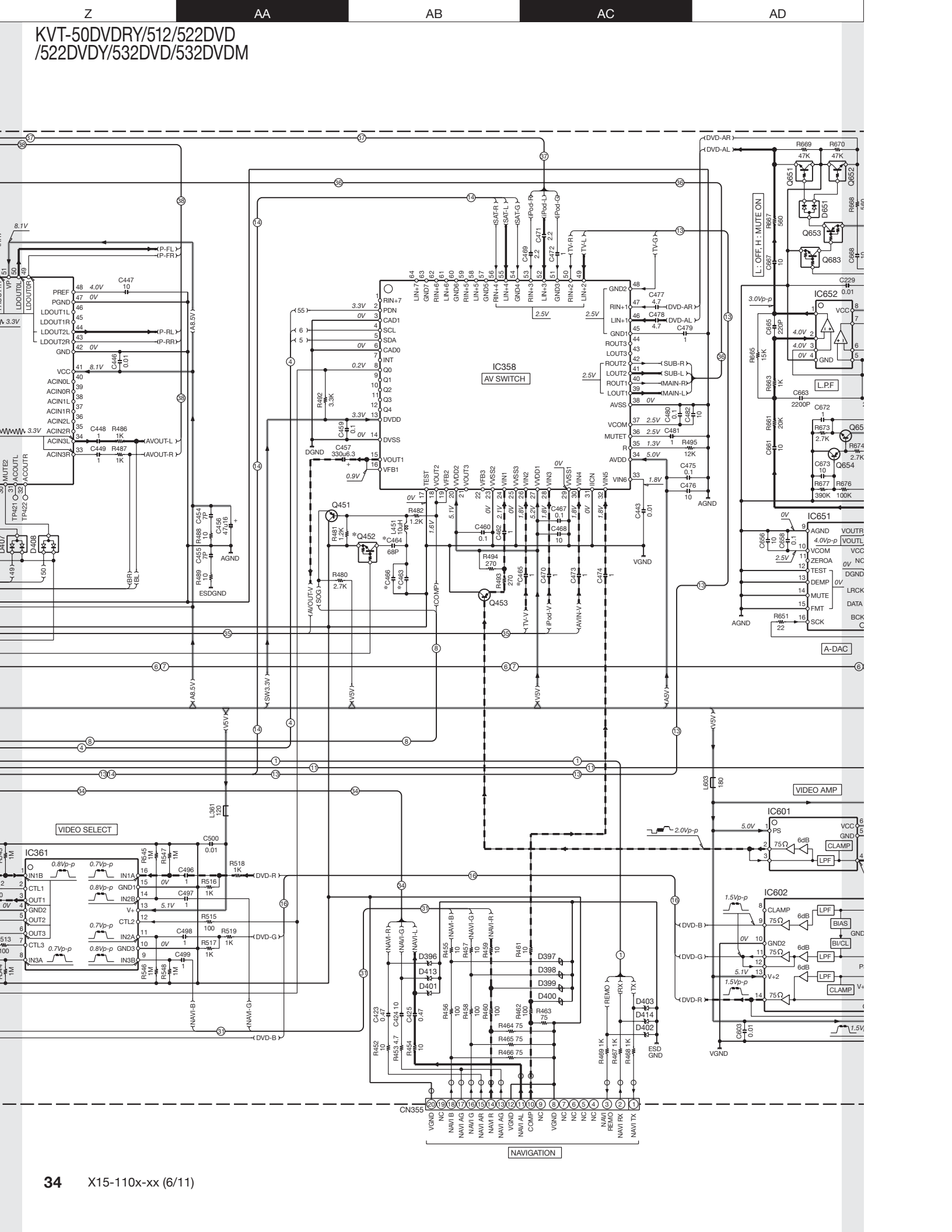


KVT-50DVDRY/512/522DVD
/522VDY/532DVD/532DVIDM

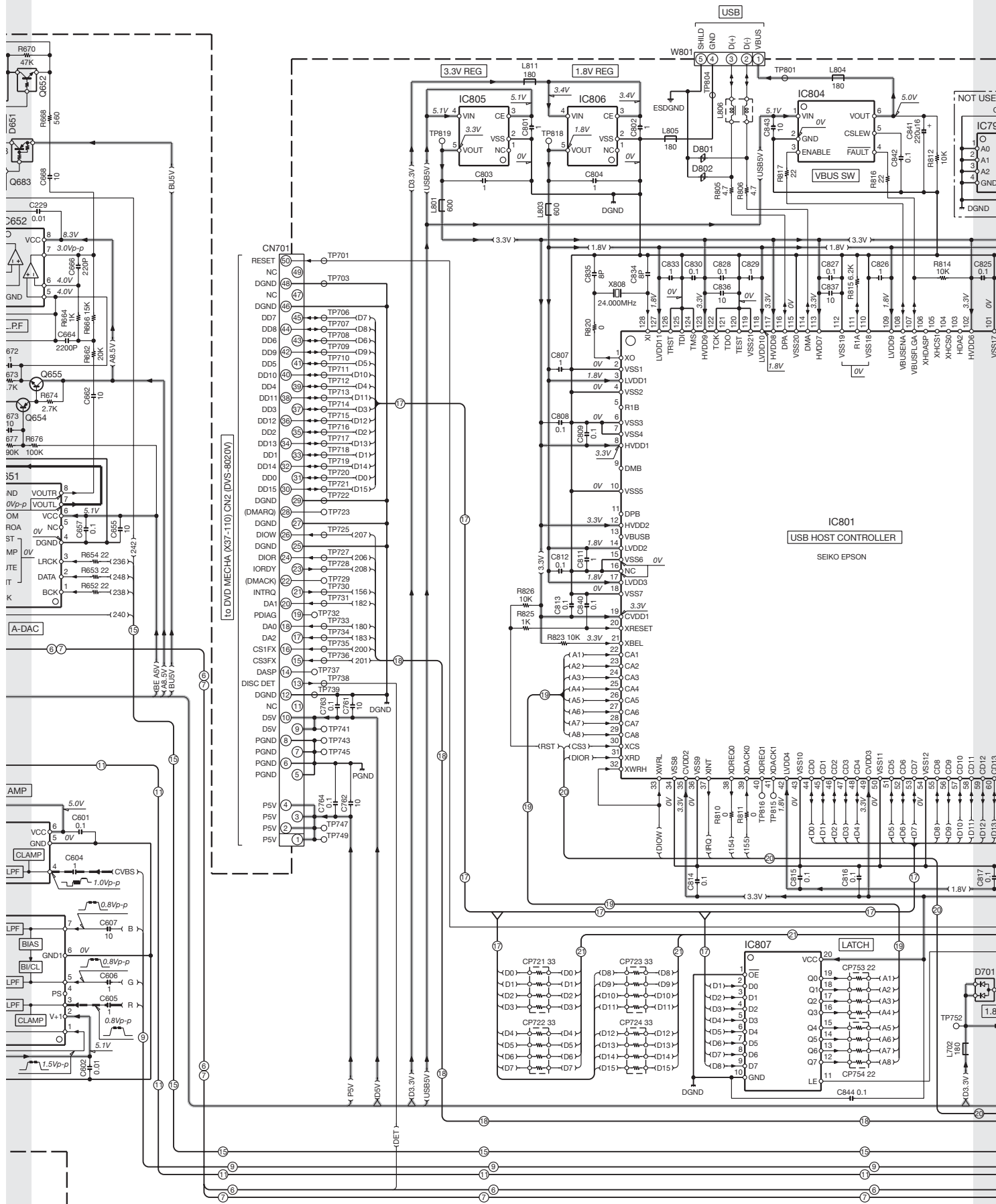


KVT-50DVD/512/522DVD
/522DVDY/532DVD/532DVDM

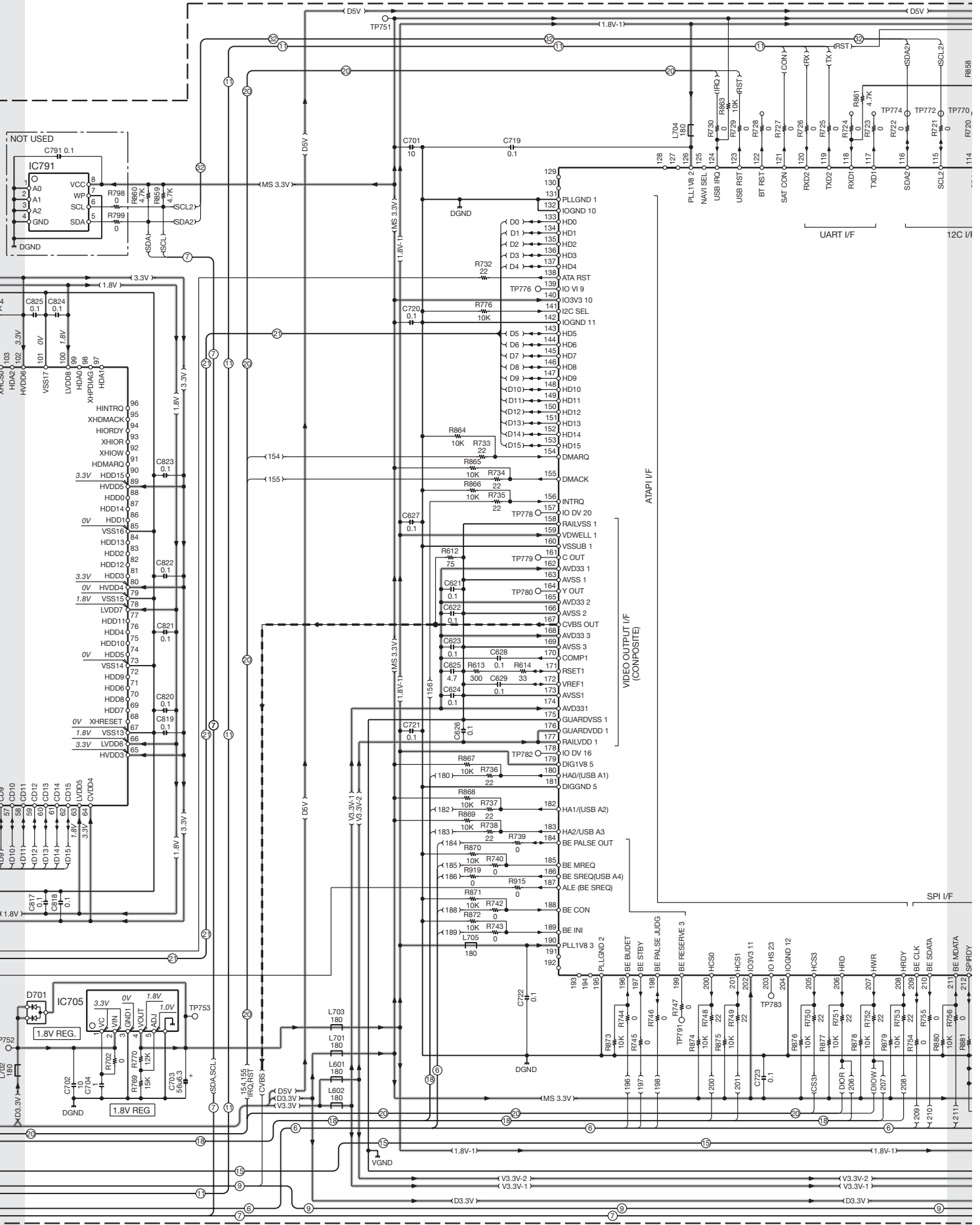




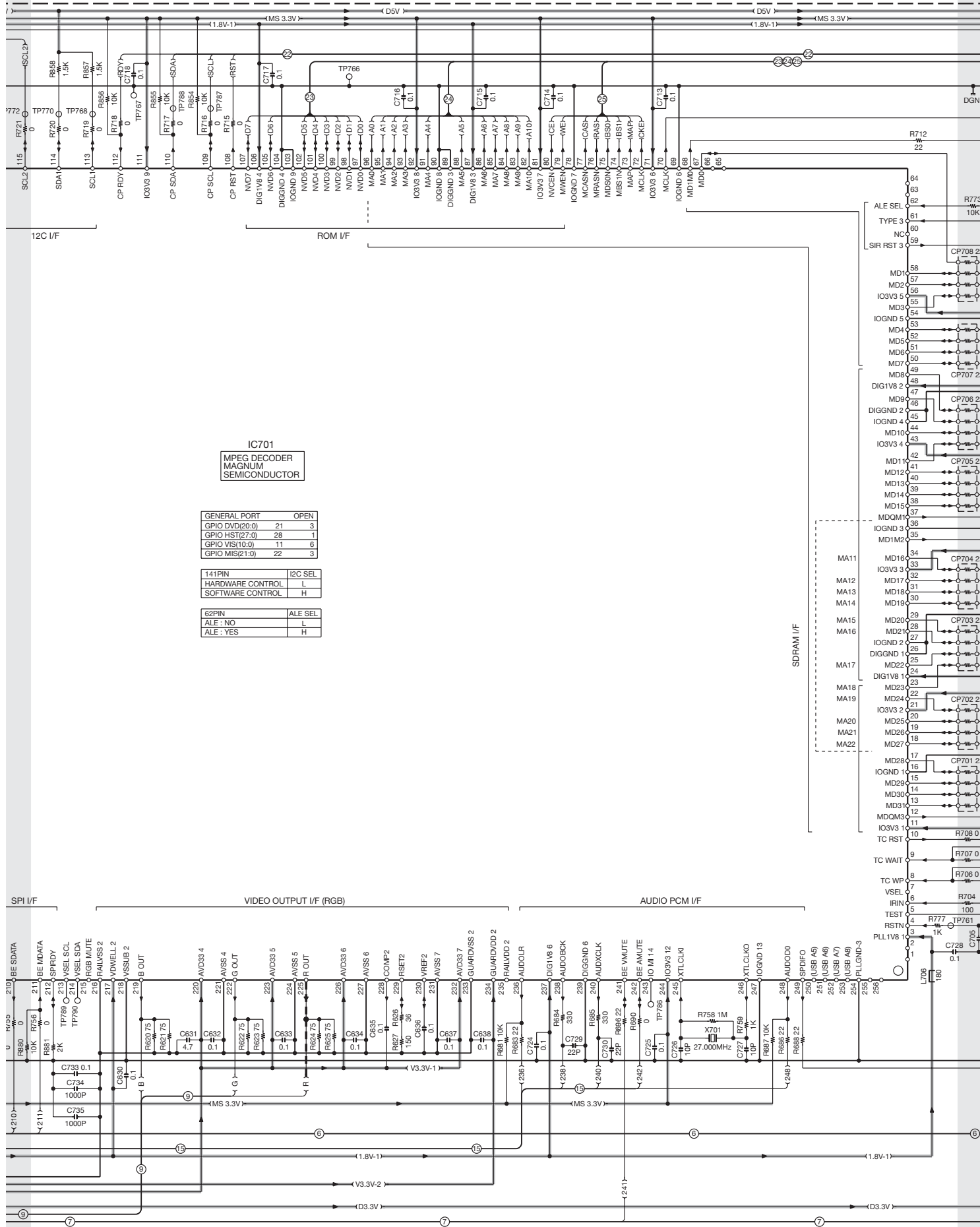
KVT-50DVD/512/522DVD /522DVDY/532DVD/532DVDY



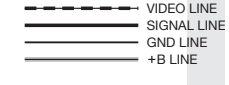
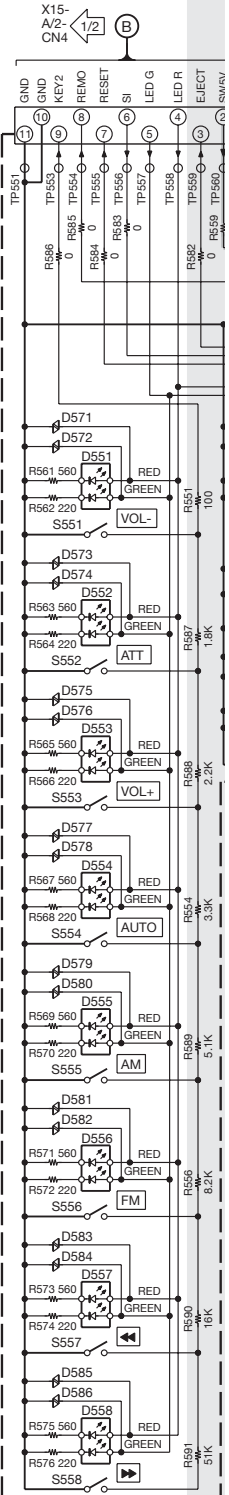
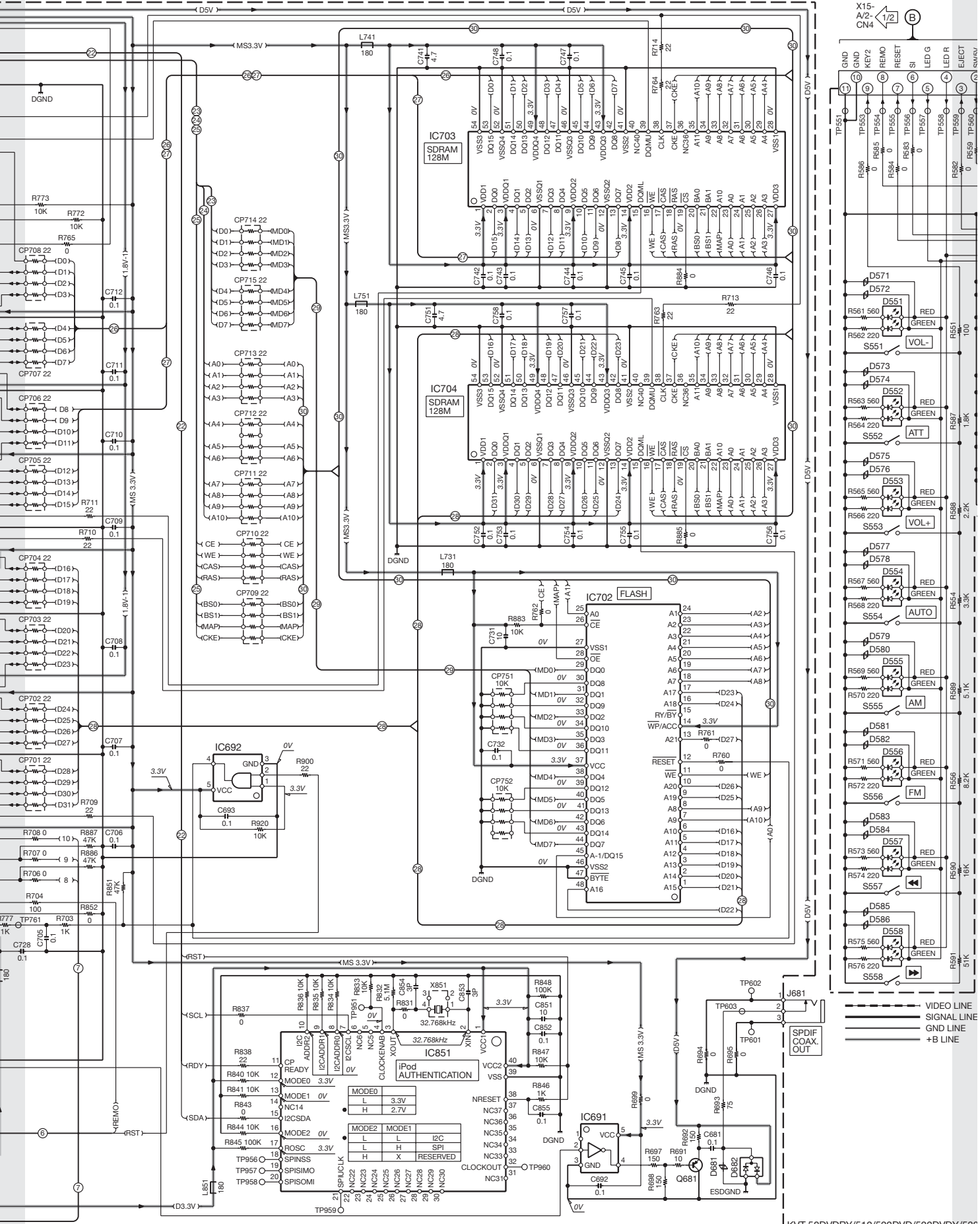
KVT-50DVDRY/512/522DVD
/522DVDY/532DVD/532DVD M

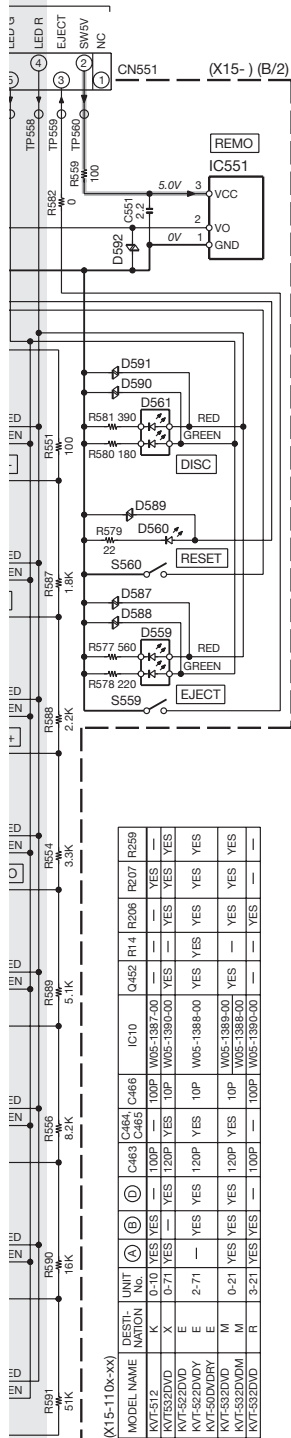


KVT-50DVD/512/522DVD /522DVDY/532DVD/532DVDM



KVT-50DVD/512/522DVD /522DVDY/532DVD/532DVDY





IC1	: XC6201P502PR
IC2	: M5237ML-CF0J
IC3,4	: LTC3728LEGN
IC5,6	: LB1836M-TLM-E
IC7	: R1114N331B-TR
IC8,692	: 74AHC1G08GW
IC9	: M30878 MJB22GP
IC10	: *
IC11	: NOT USED
IC12	: S-80835CNBB-G
IC13	: 74AHC1G32GW
IC351	: E-TDA7850A
IC354	: NJM2505AF-ZB
IC355	: E-TDA7478AD
IC356	: 74AHCT08PW
IC357	: E-TDA7415CB
IC358	: AK4220
IC361	: NJM2286V-ZB
IC401,402	: 74AHC1G04GW
IC551	: PNA4S2M02KW
IC601	: MM1671XNRE
IC602	: NJM2573V-ZB
IC651	: PCM1754DB
IC652	: NJM4565V-ZB
IC691	: 74AHC1G04GW
IC701	: M58312A-ICG
IC702	: S29GL64A9I4Z4
IC703,704	: A2V28S40CTPG6
IC705	: SI-3010K
IC791	: NOT USED
IC801	: S1R72C05F15
IC804	: MIC2005-08YM6
IC805	: XC6219B332PR
IC806	: XC6219B182PR
IC807	: 74AHC573PW
IC851	: 341S2094

Q1,3,72,359,362	: DTC124EE
Q2	: DTA143ZE
Q4,8	: 2SB1188(R)
Q5,14,16,25,36,37,453,654	: 2SA1774
Q6,19,80	: DTA114EE
Q7,15,20,29,45,52,683	: DTA143ZE
Q9,11-13,17,21,22,24,26,28,61,63,65,655	: DTC143ZE

Q18,452	: DTA114TUA
Q23	: 2SB1184
Q27,40,42,44,60,62,64,451,681	: 2SA1576A
Q30	: 2SB1689
Q35	: DTC114YE
Q38,46	: TPC8110-F
Q39	: KTA1046-P
Q41,43,350,370	: 2SC4081

Q51,53,56,57	: DTC124XUA
Q54,55,58,59	: HAT2218R-E
Q66,68	: DTB123YK
Q67,69	: DTC143EE
Q71,82	: DTA124EE
Q73,74,454,455	: DTC144EE

Q75,653	: DTA114EUA
Q76,78,79	: 2SK3019
Q77	: DTA124XUA
Q351,353,354,356,357,360,372,373,651,652	: DTC143TUA
Q352,355,358,371	: DTA144EE
Q361	: 2SA1577

D1,2,4,5,12,42,352,404,405,415	: 1SS355
D3,13,366,379,388,394,395,402,403,411-414	: UDZW6.2(B)

D6-9	: 1SR154-400
D11	: UDZW4.7(B)
D14	: EP05Q04
D15-18	: 1SS357-F
D19-23,27-31,33-36,40,41,380,381,389-392	: CVS10A120M

D24,25,37,39,353,354,357,358,361,362,571-591	: CVS10A180M
----------------------------------------------	--------------

D32,682	: DA204U
D351,355,356,359,360,363,364,368,406-408,651,701	: DAP202U

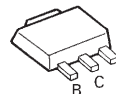
D365,367,378,393,396,401,409,410	: UDZW6.8(B)
D369-376,384,397-400,592,681	: CVL10C270M300

D382,383	: UDZS6.2B
D551-559,561	: B30-1605-05
D560	: B30-1779-05
D801,802	: AVR1613R3FTA

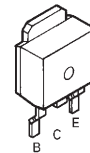
DTA114EE
DTA124EE
DTA143XE
DTA143ZE
DTA144EE
DTB123YK
DTC114EE
DTC114YE
DTC114YUA
DTC124EE
DTC143EE
DTC143TUA
DTC143ZE
DTC144EE
2SA1576A
2SC4617



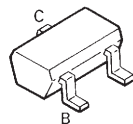
2SB1188



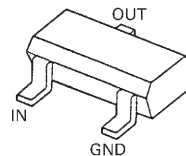
2SB1184



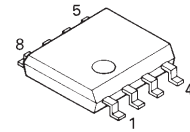
2SA1774
2SC4081



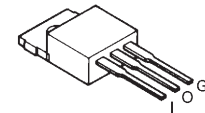
DTA114EUA
DTA114TUA



TA75W558FU-F



KTA1046-P



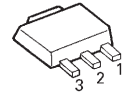
DAP202U
DA204U



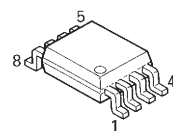
2SK3019



M5237ML-CF0J



TC7WH123FU-F

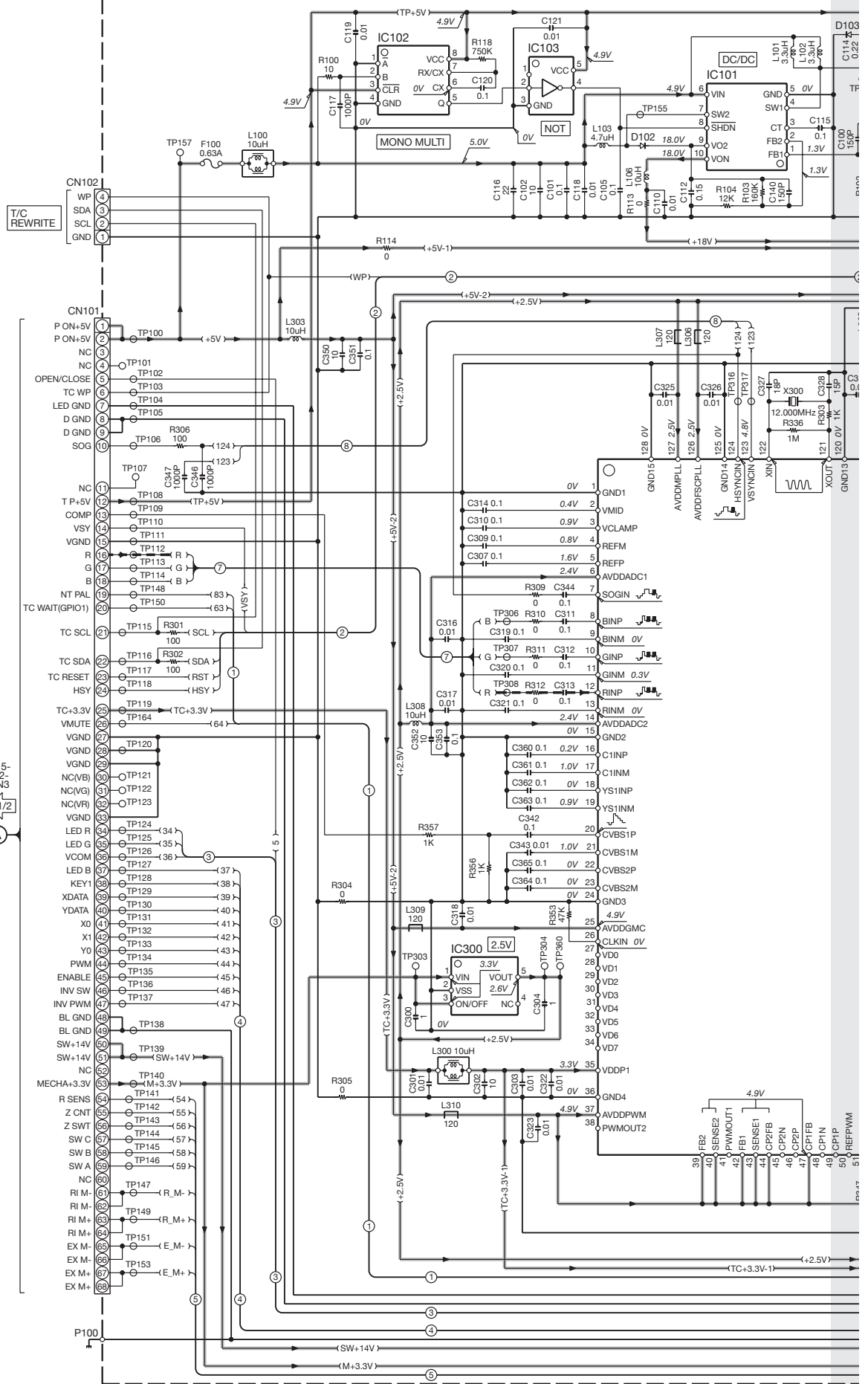


VIDEO LINE
SIGNAL LINE
GND LINE
+B LINE

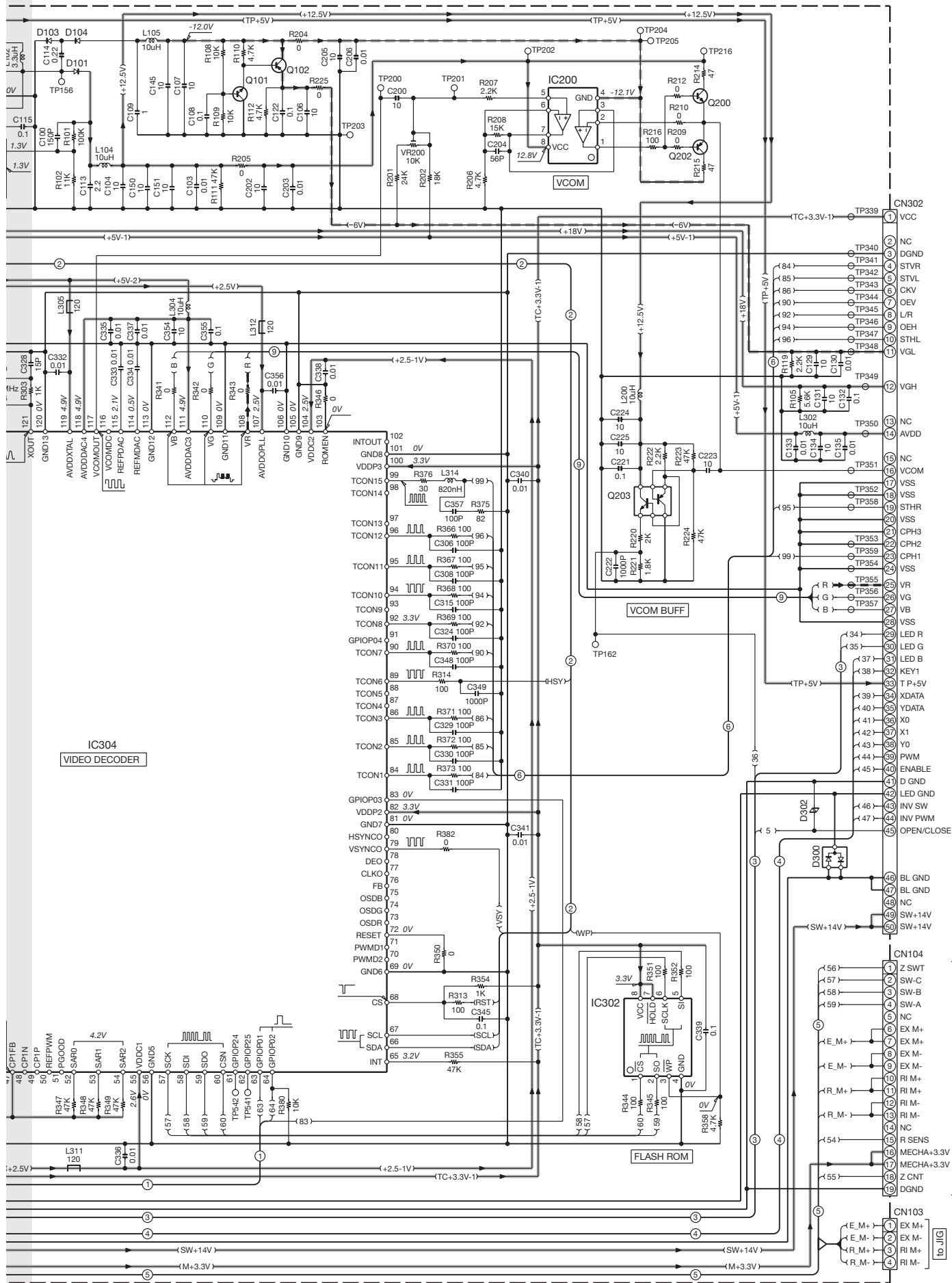
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably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

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

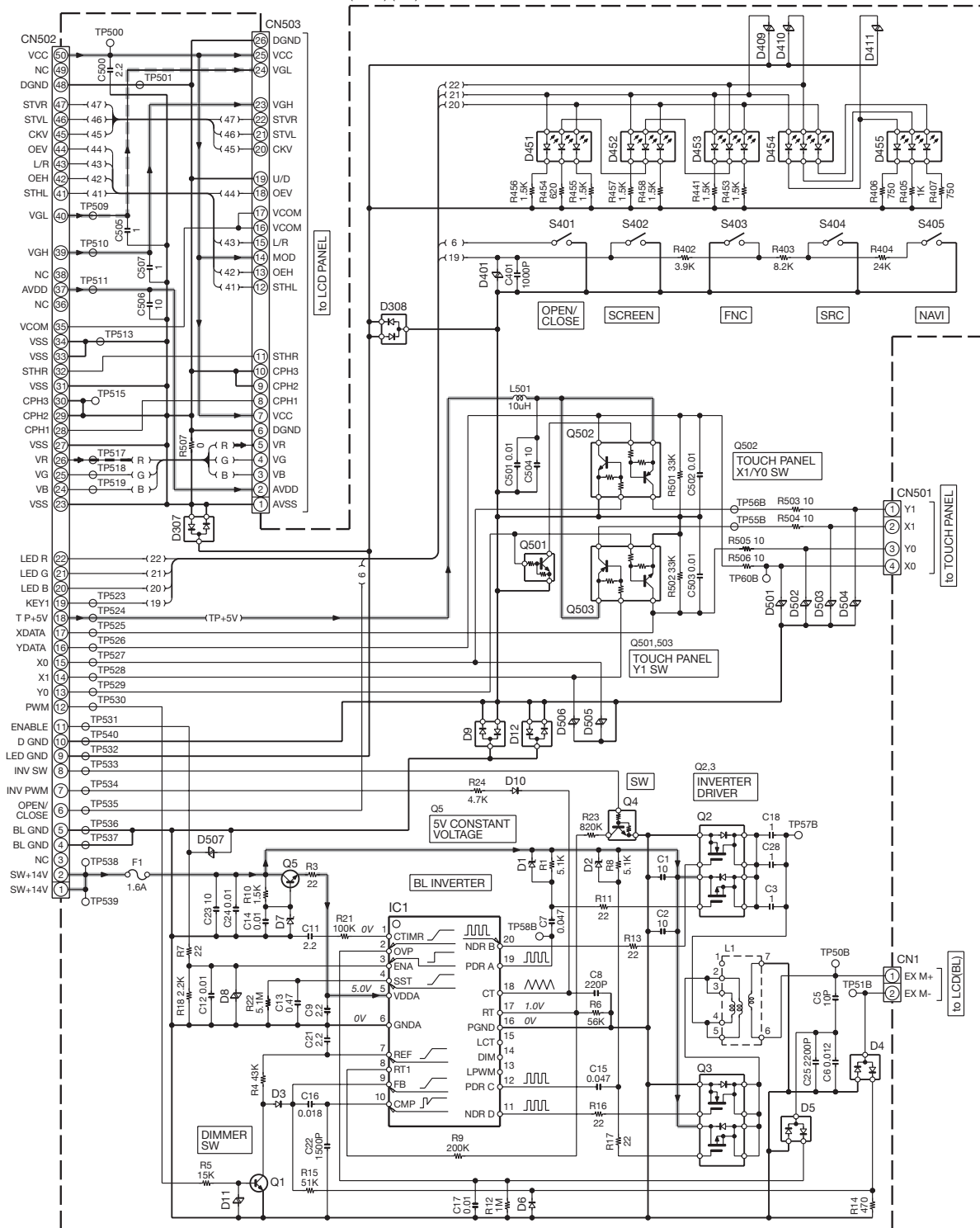
(X35-4960-10) (A/2)



KVT-50DVDRY/512/522DVD
/522DVDY/532DVD/532DVDM



(X35-) (B/2)



IC1 : OZ9641SN-C-SN	Q1,5,101 : 2SC4081	D1,2,7 : UDZW5.6(B)
IC101 : LT1947-PBF	Q2,3 : S15504DC-E3	D3,10 : 1SS355
IC102 : TC7WH123FU-F	Q4 : DTC114YUA	D4,5,9,12,300,307,308
IC103 : 74AHC1G04GW	Q102 : 2SA1576A	DA204U
IC200 : TA75W558FU-F	Q200 : 2SC4097	MA2S784-F
IC300 : S-1112B2MCG	Q202 : 2SA1577	D8,11,302,401,505-507
IC302 : AT25F2048-428	Q203 : UMZ1N	CVS10A120M
IC304 : MST7988LA-ALF	Q501 : DTC114YE	D101,103,104
	Q502,503 : PUMD10	EP05Q04
		EP05Q06

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

KVT-50DVEDRY/512/522DVD/
522DVDY/532DVD/532DVDM (2/2)

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.

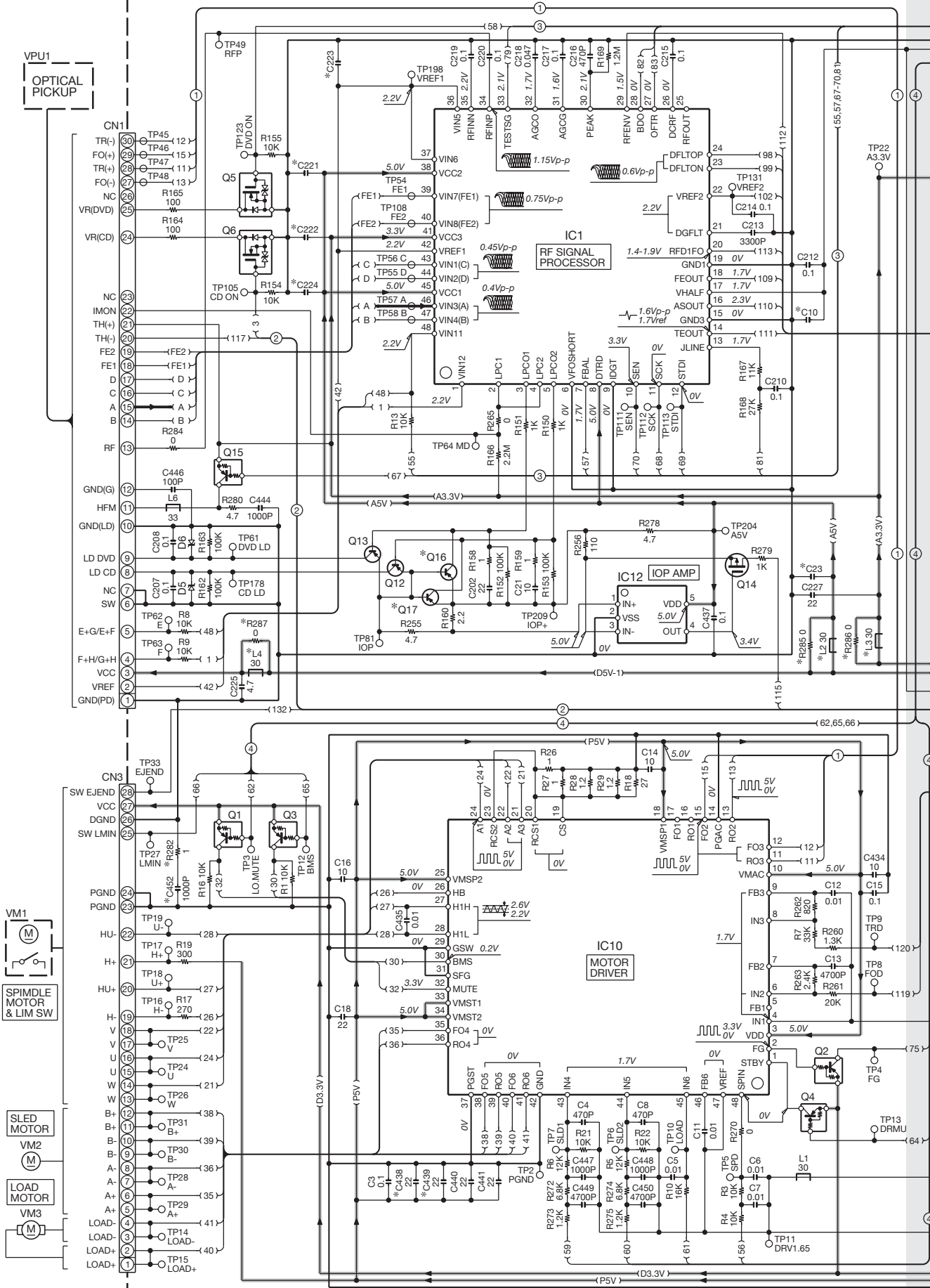
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

1
2
3
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6
7

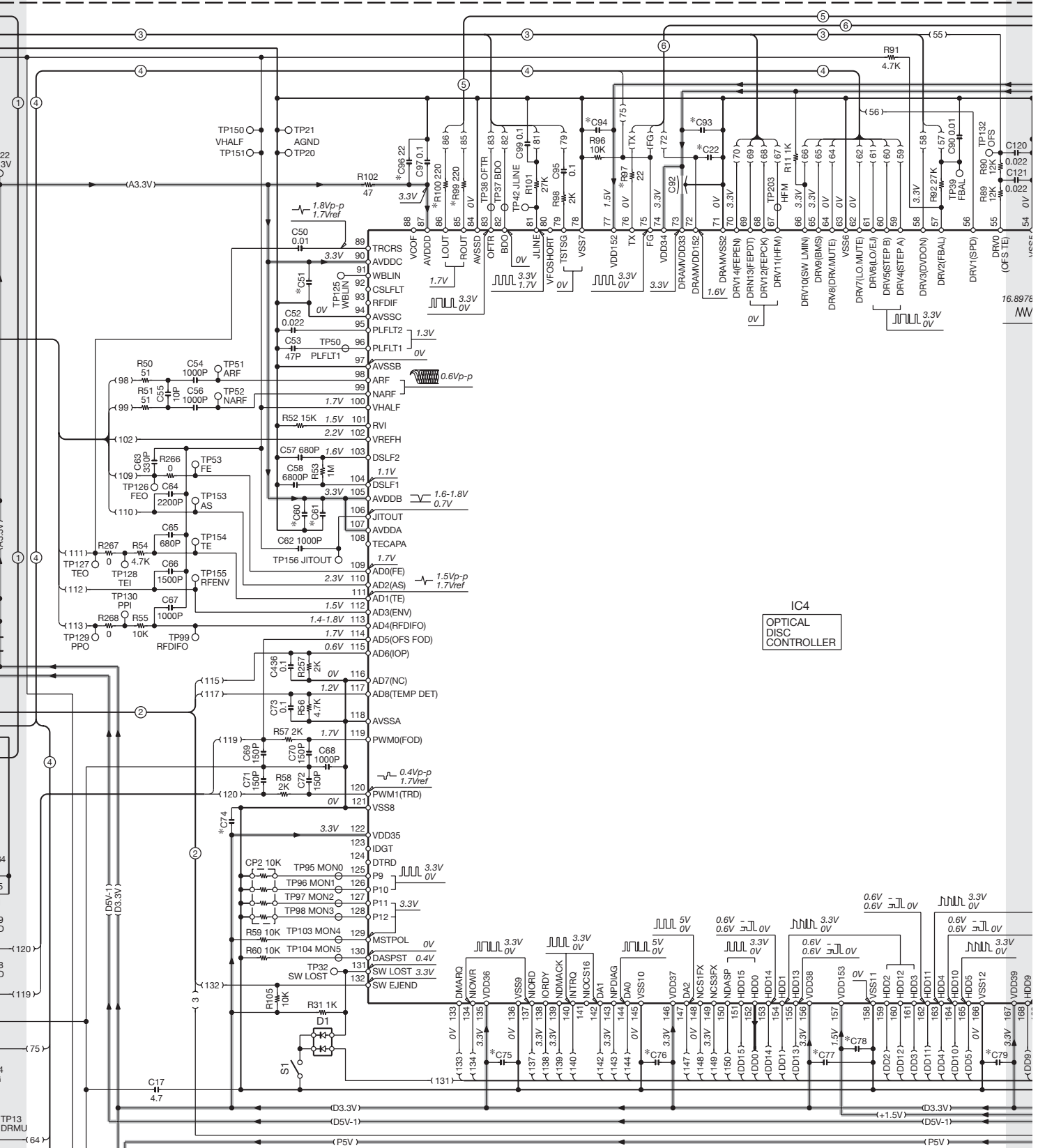
KVT-50DVDY/512/522DVD
/522DVDY/532DVD/532DVDM

(X37-1100-0x)

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7

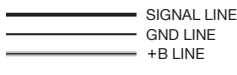


KVT-50DVEDRY/512/522DVD /522DVDY/532DVD/532DVD M

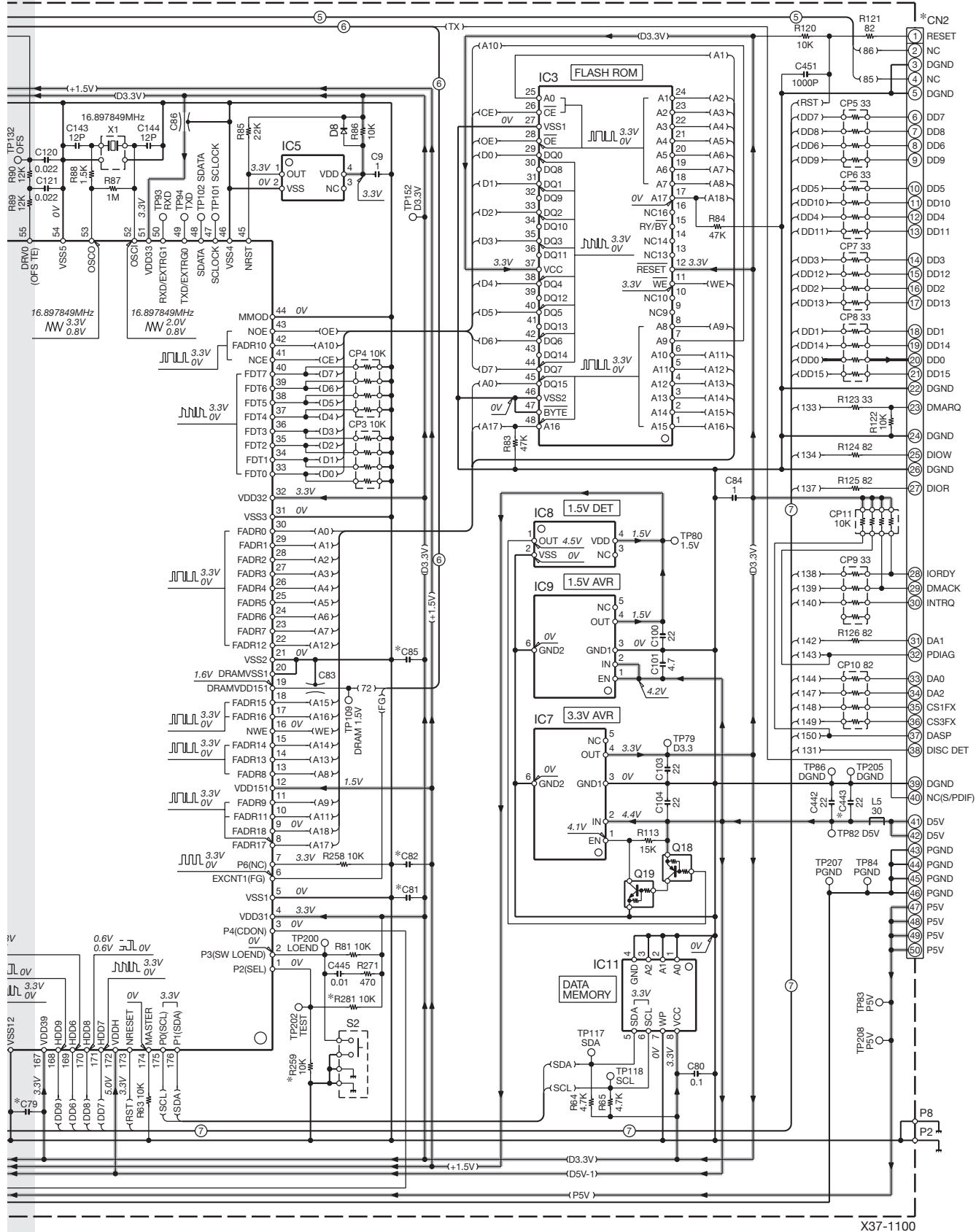


IC4
OPTICAL DISC CONTROLLER

- IC1 : AN22022ABV
- IC3 : S29AL04D55TFI
- IC4 : MN103S71F
- IC5 : S1000N28I4T1G
- IC7 : TA48S033AF-Q
- IC8 : S-80812CNPF-G
- IC9 : TA48S015AF-Q
- IC10 : AN41250A-VB
- IC11 : S-24CS04AFT
- IC12 : NJU7042
- Q1-4 : DTA143XE
- Q5,6 : 2SK3019
- Q12,13 : 2SB1709
- Q14 : SSM3J15FU-F
- Q15,18 : DTA143ZE
- Q16,17 : 2SA1774
- Q19 : DTC114EE
- D1 : 1SS402-F
- D5,6 : 01SAZ5.1-F(Y)
- D8 : 1SS387-F



UNIT No.		C10	C51	C56,61,74,79,81	C96	C438,439	CN2	L2-4	Q16,	R97,	R259	R281	R2
		22,23	82,85,93,94,221-224	221-224		443,452			17	99,100			
0-00	10	1	—	—	—	—	—	—	—	—	—	—	—
0-01	10	1	—	—	—	—	—	—	—	—	—	—	—
0-02	10	1	—	—	—	—	—	—	—	—	—	—	—
0-03	4.7	0.1	—	—	—	—	—	—	—	—	—	—	—
0-04	4.7	0.1	—	—	—	—	—	—	—	—	—	—	—



X37-1100

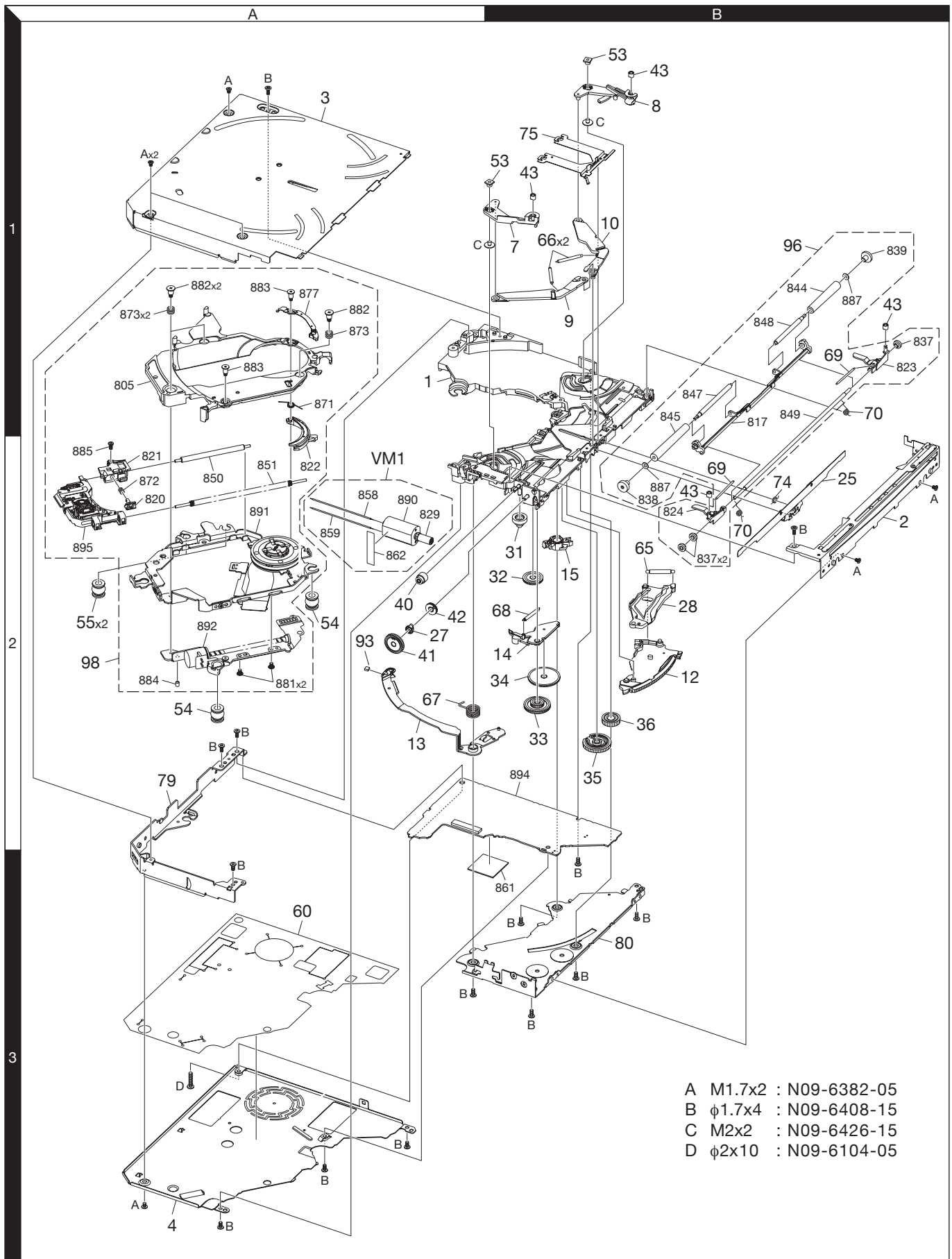
59	R281	R282	R285-287
—	—	—	—
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—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

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.

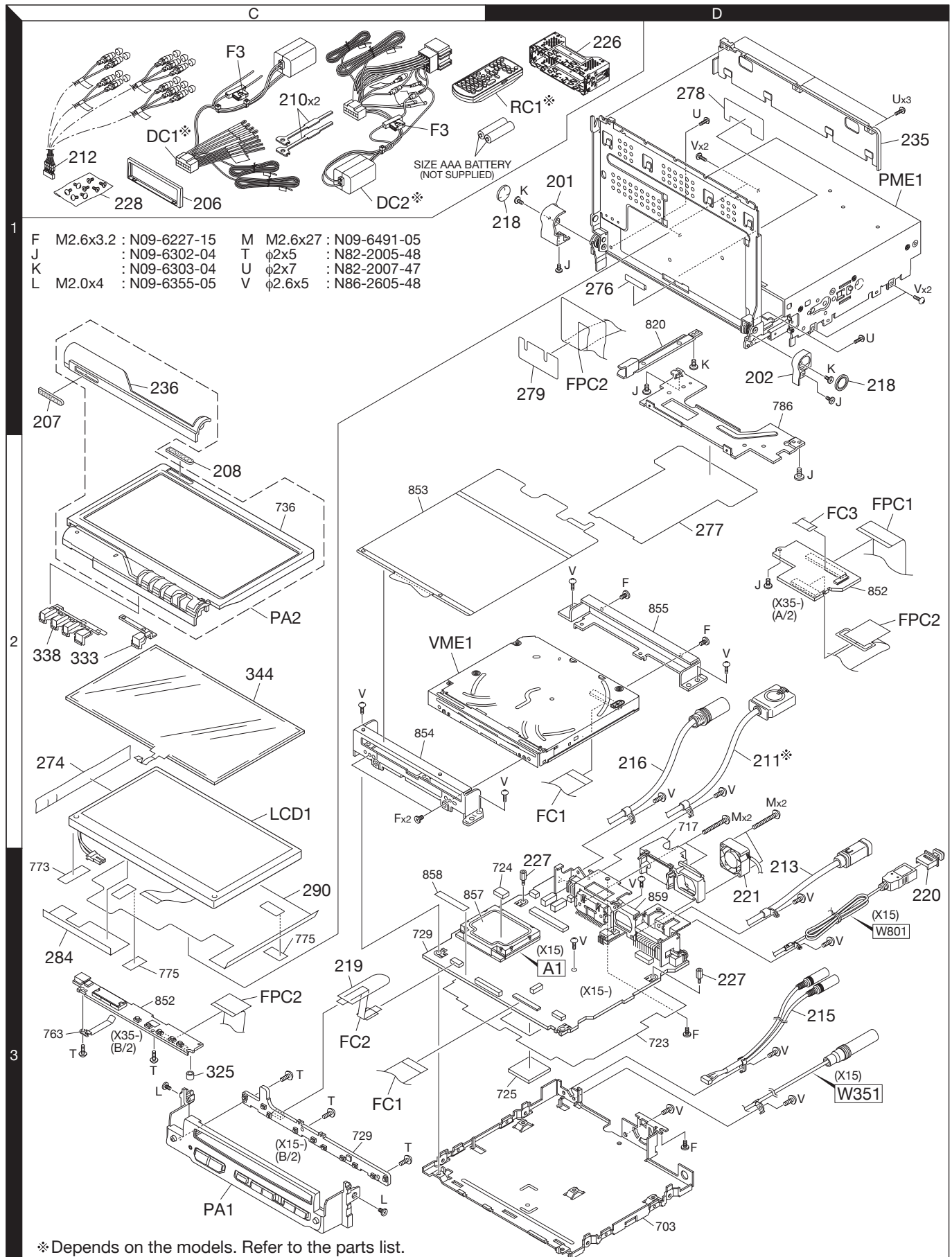
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

EXPLODED VIEW (DVD MECHANISM)



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

EXPLODED VIEW (UNIT)

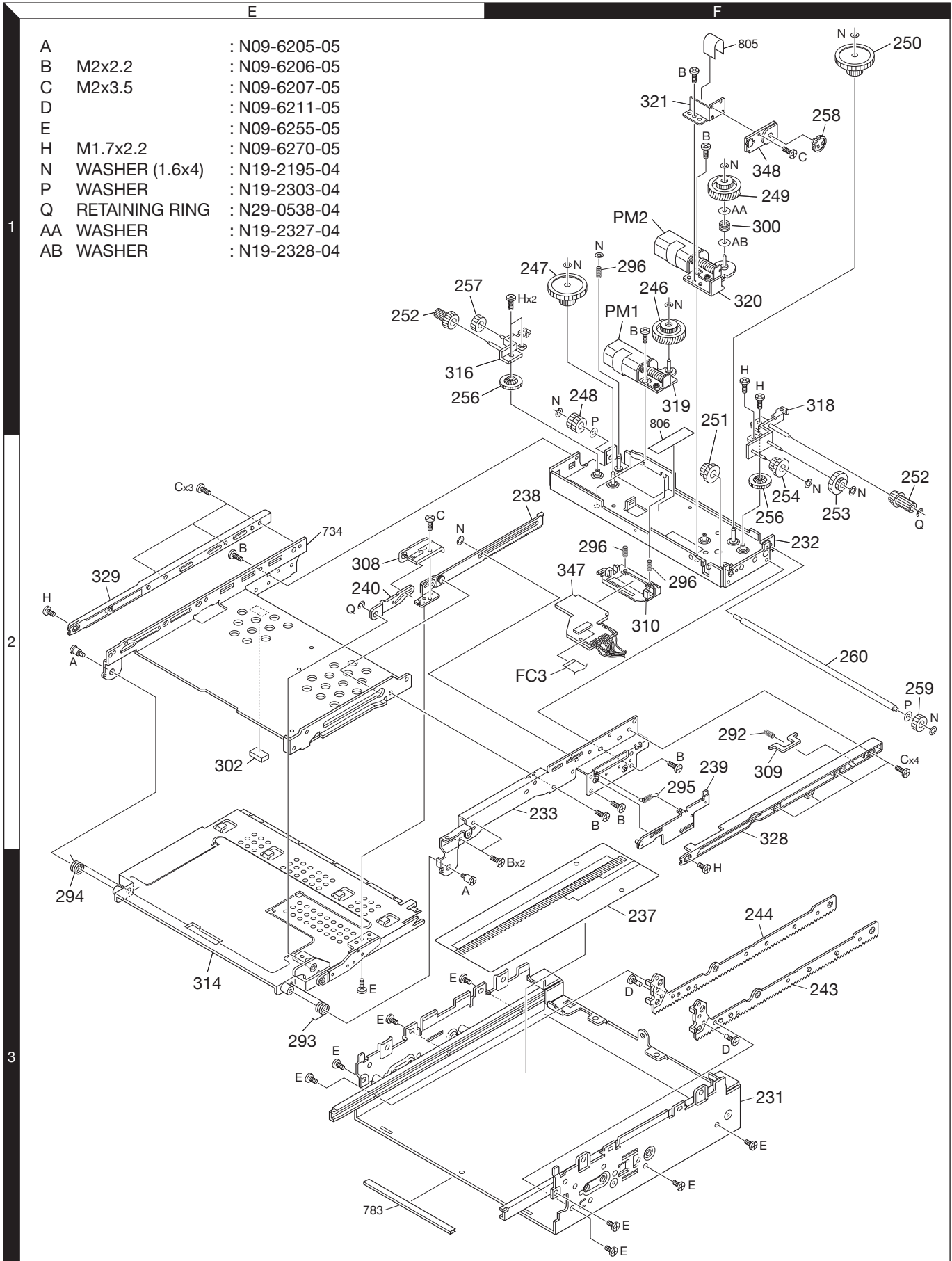


*Depends on the models. Refer to the parts list.

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

EXPLODED VIEW (DISPLAY ASSY)

- | | | |
|----|----------------|---------------|
| A | : | N09-6205-05 |
| B | M2x2.2 | : N09-6206-05 |
| C | M2x3.5 | : N09-6207-05 |
| D | | : N09-6211-05 |
| E | | : N09-6255-05 |
| H | M1.7x2.2 | : N09-6270-05 |
| N | WASHER (1.6x4) | : N19-2195-04 |
| P | WASHER | : N19-2303-04 |
| Q | RETAINING RING | : N29-0538-04 |
| AA | WASHER | : N19-2327-04 |
| AB | WASHER | : N19-2328-04 |



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.	Add	New	Parts No.	Description	Destination
KVT-50DVDRY/512/522DVD/522DVDY/532DVD/532DVDM					
201	1D	*	A21-6612-02+	DRESSING PANEL	E3
201	1D	*	A21-6662-12+	DRESSING PANEL	KR1E1
201	1D	*	A21-6662-12+	DRESSING PANEL	E2M1M2
201	1D	*	A21-6662-12+	DRESSING PANEL	X1
202	1D	*	A21-6663-03+	DRESSING PANEL	
PA1	3C	*	A64-4489-02	PANEL ASSY	KR1X1
PA1	3C	*	A64-4491-02	PANEL ASSY	E1E2M1
PA1	3C	*	A64-4491-02	PANEL ASSY	M2E3
RC1	1C		A70-2083-15	REMOTE CONTROLLER ASS(RC-DV340	E2M1M2
RC1	1C		A70-2083-15	REMOTE CONTROLLER ASS (RC-DV340	X1E3
-		*	B54-4637-00	INSTALLATION MANU (ENG.FRE.SPA)	KR1
-		*	B54-4638-00	INSTALLATION MANUAL (POR.)	R1
-		*	B54-4639-00	INSTALLATION MANUAL (ENG.)	E1E2E3
-		*	B54-4640-00	INSTALLATION MANU (F.G.D.I.S.P)	E1
-		*	B54-4641-00	INSTALLATION MANUAL (RUS.)	E2E3
-		*	B54-4642-00	INSTALLATION MA (ENG.S-CHI.KOR)	M1M2X1
-		*	B64-4021-00	INSTRUCTION MANUAL (ENG.)	KR1
-		*	B64-4022-00	INSTRUCTION MANUAL (FRE.)	K
-		*	B64-4023-00	INSTRUCTION MANUAL (SPA.)	KR1
-		*	B64-4024-00	INSTRUCTION MANUAL (POR.)	R1
-		*	B64-4025-00	INSTRUCTION MANUAL (ENG.)	E1E2E3
-		*	B64-4026-00	INSTRUCTION MANUAL (FRE.)	E1
-		*	B64-4027-00	INSTRUCTION MANUAL (GER.)	E1
-		*	B64-4028-00	INSTRUCTION MANUAL (DUT.)	E1
-		*	B64-4029-00	INSTRUCTION MANUAL (ITA.)	E1
-		*	B64-4030-00	INSTRUCTION MANUAL (SPA.)	E1
-		*	B64-4031-00	INSTRUCTION MANUAL (POR.)	E1
-		*	B64-4032-00	INSTRUCTION MANUAL (RUS.)	E2E3
-		*	B64-4033-00	INSTRUCTION MANUAL (ENG.)	M1M2X1
-		*	B64-4034-00	INSTRUCTION MANUAL (S-CHI.)	M1
-		*	B64-4035-00	INSTRUCTION MANUAL (KOR.)	M1
206	1C		B07-3159-02	ESCUTCHEON	
207	1C		B43-1518-04	BADGE	
208	2C		B43-1527-04	BADGE	
210	1C		D10-4589-04	LEVER	
211	2D	*	E30-6812-05	CORD WITH PLUG	E1E2M1
211	2D	*	E30-6812-05	CORD WITH PLUG	M2X1E3
212	1C	*	E30-6813-05	CORD WITH PINPLUG	
213	3D	*	E30-6814-05	CONNECTING CORD ASSY	
215	3D	*	E30-6817-05	CORD WITH PLUG (IPOD)	
216	2D	*	E30-6818-05	CORD WITH PLUG (NAVI)	
△ DC1	1C	*	E30-6815-05	DC CORD	KR1M1
△ DC1	1C	*	E30-6815-05	DC CORD	M2X1
△ DC2	1C	*	E30-6816-05	DC CORD (ISO)	E1E2E3
FC1	2D	*	E39-0999-05	FLAT CABLE (50P)	
FC2	3C	*	E39-1000-05	FLAT CABLE (11P)	
218	1D	*	F07-1189-04	COVER	
219	3D		F09-1206-04	SHEET	
220	2D		F09-2929-04	CAP	
221	3D	*	F09-2971-05	FAN	
F3	1C		F05-1537-05	FUSE 15A	

Ref. No.	Add	New	Parts No.	Description	Destination
-		*	H54-4298-03	ITEM CARTON CASE	K
-		*	H54-4299-03	ITEM CARTON CASE	R1
-		*	H54-4300-03	ITEM CARTON CASE	M1X1
-		*	H54-4301-03	ITEM CARTON CASE	E1
-		*	H54-4302-03	ITEM CARTON CASE	E2
-		*	H54-4306-03	ITEM CARTON CASE	M2
-		*	H54-4382-03	ITEM CARTON CASE	E3
226	1D		J21-9716-03	MOUNTING HARDWARE ASSY	
227	3D	*	J32-1388-04	HEXAGON BOSS	
228	1C	*	N99-1758-15	SCREW SET	KR1M1
228	1C	*	N99-1758-15	SCREW SET	M2X1
F	3D		N09-6227-15	MACHINE SCREW (M2.6X 3.2NI)	
J	1D		N09-6302-04	MACHINE SCREW	
K	1D		N09-6303-04	MACHINE SCREW	
L	3C		N09-6355-05	MACHINE SCREW (M2.0X4)	
M	2D		N09-6491-05	MACHINE SCREW (M2.6X27)	
T	3C		N82-2005-48	BINDING HEAD TAPTITE SCREW	
V	3D		N86-2605-48	BINDING HEAD TAPTITE SCREW	
DISPLAY ASSY					
231	3F	*	A10-5164-12	CHASSIS CALKING ASSY	
232	2F	*	A10-5166-33	CHASSIS CALKING ASSY	
233	2F	*	A10-5168-13	CHASSIS CALKING ASSY	
235	1D	*	A46-1857-22+	REAR COVER	
PA2	2C	*	A64-4481-11+	PANEL ASSY	K
PA2	2C	*	A64-4482-11+	PANEL ASSY	R1
PA2	2C	*	A64-4483-11+	PANEL ASSY	E1E2
PA2	2C	*	A64-4484-11+	PANEL ASSY	M1M2X1
PA2	2C	*	A64-4611-01+	PANEL ASSY	E3
PME1	1D		A10-5171-51	CHASSIS ASSY	
236	1C	*	B07-3241-12	ESCUTCHEON	K
236	1C	*	B07-3242-12	ESCUTCHEON	M1M2X1
236	1C	*	B07-3243-12	ESCUTCHEON	E1E2
236	1C	*	B07-3266-02	ESCUTCHEON	R1
236	1C	*	B07-3267-02	ESCUTCHEON	E3
237	3F		B11-1453-04	REFLECTION SHEET	
LCD1	2C		B38-1196-05	LCD (7INCH)	
238	2F	*	D10-4836-13	ARM ASSY	
239	2F	*	D10-4837-34	LEVER ASSY	
240	2E		D10-4840-03	ARM	
243	3F		D13-2335-03	RACK (GEAR)	
244	3F		D13-2336-03	RACK (GEAR)	
246	1F		D13-2338-04	GEAR	
247	1F		D13-2339-04	GEAR	
248	2F		D13-2340-04	GEAR	
249	1F		D13-2341-04	GEAR	
250	1F		D13-2342-04	GEAR	
251	1F		D13-2343-04	GEAR	
252	1E		D13-2344-04	GEAR	
253	2F		D13-2345-04	GEAR	
254	2F		D13-2346-04	GEAR	
256	1E		D13-2349-04	GEAR	
257	1E		D13-2350-04	GEAR	
258	1F		D13-2351-04	GEAR	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DISPLAY ASSY

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
259	2F	*	D13-2457-04	GEAR	
260	2F	*	D21-2446-13	EXTENSION SHAFT	
FC3	2F		E39-0665-05	FLAT CABLE	
274	2C	*	F09-2950-04	SHEET	
276	1D	*	F09-2951-04	SHEET	
277	2D	*	F09-2952-04	SHEET	
278	1D	*	F09-2953-04	SHEET	
279	1D	*	F09-2954-04	SHEET	
284	3C	*	F12-0966-04	SHIELDING SHEET	
290	3C	*	F20-2447-03	INSULATING SHEET	
292	2F		G01-3222-04	COMPRESSION SPRING	
293	3E	*	G01-3223-14	TORSION COIL SPRING	
294	3E		G01-3224-04	TORSION COIL SPRING	
295	2F		G01-3225-04	EXTENSION SPRING	
296	2F		G01-3226-04	COMPRESSION SPRING	
300	1F		G01-4653-04	COMPRESSION SPRING	
302	2E		G11-3587-04	CUSHION	
308	2E		J19-7004-03	HOLDER	
309	2F		J19-7005-04	STABILIZER	
310	2F		J19-7007-03	HOLDER	
314	3E	*	J22-0198-32	MOUNTING HARDWARE ASSY	
316	1E	*	J22-0200-14	MOUNTING HARDWARE ASSY	
318	1F	*	J22-0202-14	MOUNTING HARDWARE ASSY	
319	1F	*	J22-0203-23	MOUNTING HARDWARE ASSY	
320	1F	*	J22-0206-33	MOUNTING HARDWARE ASSY	
321	1F		J22-0212-04	MOUNTING HARDWARE	
325	3C		J39-0864-14	SPACER	
328	2F		J90-1092-03	GUIDE	
329	2E		J90-1093-03	GUIDE	
FPC1	2D	*	J86-0052-05	FPC (LEAD FREE) (68P)	
FPC2			J86-0038-15	FPC (LEAD FREE) (50P)	
333	2C	*	K24-4866-03	PUSH KNOB (NAV)	
338	2C	*	K25-1925-02	PUSH KNOB (SRC/4KEY)	
A	2E		N09-6205-05	STEPPED SCREW	
AA	1F		N19-2327-04	FLAT WASHER	
AB	1F		N19-2328-04	FLAT WASHER	
B	2F		N09-6206-05	MACHINE SCREW (M2X2.2)	
C	2E		N09-6207-05	MACHINE SCREW (M2X3.5)	
D	3F		N09-6211-05	STEPPED SCREW	
E	3F		N09-6225-05	MACHINE SCREW	
H	2E		N09-6270-05	MACHINE SCREW (M1.7X2.2)	
J	2D		N09-6302-04	MACHINE SCREW	
K	1D		N09-6303-04	MACHINE SCREW	
N	1F		N19-2195-04	FLAT WASHER (1.6X4X0.25 BLUE)	
P	2F		N19-2303-04	FLAT WASHER	
Q	2E		N29-0538-04	RETAINING RING (2)	
T	3C		N82-2005-48	BINDING HEAD TAPTITE SCREW	
U	1D		N82-2007-47	BINDING HEAD TAPTITE SCREW	
344	2C		S79-0858-05	SWITCH ASSY (7INCH/T0.7)	
PM1	1F		T42-1097-04	MOTOR ASSY	
PM2	1F		T42-1099-04	MOTOR ASSY	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
347	2F		W02-5121-05	ELECTRIC CIRCUIT MODULE	
348	1F		W02-5122-05	ELECTRIC CIRCUIT MODULE	
DVD PLAYER ASSY					
F	2C		N09-6227-15	MACHINE SCREW (M2.6X 3.2NI)	
VME1	2C		X92-6160-00	DVD MECHANISM ASSY (DVS-8020V)	
VIDEO CONTROL UNIT (X15-110x-xx)					
D551-559			B30-1605-05	LED (2COLOR PG/RED)	
D560			B30-1779-05	LED (1608_SR)	
D561			B30-1605-05	LED (2COLOR PG/RED)	
C1			CK73FB1C105K	CHIP C 1.0UF K	
C2			CK73HB1E103K	CHIP C 0.010UF K	
C3,4			CK73FB1C105K	CHIP C 1.0UF K	
C5-7			CK73HB1E103K	CHIP C 0.010UF K	
C8			C90-5670-05	ELECTRO 2200UF 16WV	
C9			CK73FB1A335K	CHIP C 3.3UF K	
C10			CK73FB1C105K	CHIP C 1.0UF K	
C11			C90-5670-05	ELECTRO 2200UF 16WV	
C12			CK73GB1H104K	CHIP C 0.10UF K	
C13			CK73HB1E103K	CHIP C 0.010UF K	
C14			CK73FB1E474K	CHIP C 0.47UF K	
C15			CK73GB1H104K	CHIP C 0.10UF K	
C16			CK73EB1C106K	CHIP C 10UF K	
C18			CE32BF1C221M	CHIP EL 220UF 16WV	
C19			CE32BF0J101M	CHIP EL 100UF 6.3WV	
C21			CK73FB0J475K	CHIP C 4.7UF K	
C22			CK73HB0J105K	CHIP C 1.0UF K	
C24			CK73GB1H104K	CHIP C 0.10UF K	
C25			CE32BF1C101M	CHIP EL 100UF 16WV	
C26			CK73FB1E474K	CHIP C 0.47UF K	
C27			CK73GB1A105K	CHIP C 1.0UF K	
C28			CE32BF1C101M	CHIP EL 100UF 16WV	
C29			CK73FB0J475K	CHIP C 4.7UF K	
C31			CK73GB0J106M	CHIP C 10UF M	
C32			CK73FB1E104K	CHIP C 0.10UF K	
C35			CC73HCH1H101J	CHIP C 100PF J	
C36			CK73HB1C473K	CHIP C 0.047UF K	
C37			CC73HCH1H221J	CHIP C 220PF J	
C38			CC73HCH1H101J	CHIP C 100PF J	
C39			CC73HCH1H470J	CHIP C 47PF J	
C40			CC73HCH1H221J	CHIP C 220PF J	
C41			CK73HB1C473K	CHIP C 0.047UF K	
C43,44			CK73HB1E103K	CHIP C 0.010UF K	
C45			CK73HB1E223K	CHIP C 0.022UF K	
C46			CK73HB1E103K	CHIP C 0.010UF K	
C48-52			CK73HB1H102K	CHIP C 1000PF K	
C53			CK73FB0J106K	CHIP C 10UF K	
C54			CK73GB1H104K	CHIP C 0.10UF K	
C55			CK73HB1E103K	CHIP C 0.010UF K	
C56			CK73GB1C104K	CHIP C 0.10UF K	
C57			CK73FB0J106K	CHIP C 10UF K	
C58			CK73HB1E103K	CHIP C 0.010UF K	
C59-61			CK73GB1H104K	CHIP C 0.10UF K	
C62			CK73HB1H102K	CHIP C 1000PF K	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C63			CK73GB1C104K	CHIP C 0.10UF K		C148			CK73HB1E103K	CHIP C 0.010UF K	
C64,65			CK73HB1H102K	CHIP C 1000PF K		C149			CK73EB1A106K	CHIP C 10UF K	
C66			CK73EB1E225K	CHIP C 2.2UF K		C150			CK73HB1A104K	CHIP C 0.10UF K	
C67			CK73HB1H102K	CHIP C 1000PF K		C151			CK73HB1E103K	CHIP C 0.010UF K	
C68-70			CK73GB1H104K	CHIP C 0.10UF K		C152			CK73HB1A104K	CHIP C 0.10UF K	
C71			CK73HB1H102K	CHIP C 1000PF K		C153			CK73HB1E103K	CHIP C 0.010UF K	
C72,73			CK73HB1E103K	CHIP C 0.010UF K		C154			CK73HB1A104K	CHIP C 0.10UF K	
C74-76			CK73HB1H102K	CHIP C 1000PF K		C155			CK73HB1E103K	CHIP C 0.010UF K	
C77			CE32AV1A121M	CHIP EL 120UF 10WV		C156			CK73HB1A104K	CHIP C 0.10UF K	
C78			CE32AV0J221M	CHIP EL 220UF 6.3WV		C157			CK73HB1E103K	CHIP C 0.010UF K	
C80			CK73HB1E103K	CHIP C 0.010UF K		C161			CK73HB1E103K	CHIP C 0.010UF K	
C81			CK73GB1H104K	CHIP C 0.10UF K		C162			CK73HB1A104K	CHIP C 0.10UF K	
C82,83			CE32BQ1E680M	CHIP EL 68UF 25WV		C163			CK73HB1E103K	CHIP C 0.010UF K	
C84			CK73GB1H104K	CHIP C 0.10UF K		C164			CK73GB1C104K	CHIP C 0.10UF K	
C85			CK73HB1E103K	CHIP C 0.010UF K		C165,166			CK73HB0J105K	CHIP C 1.0UF K	
C87,88			CK73HB1E103K	CHIP C 0.010UF K		C167			CK73HB1A104K	CHIP C 0.10UF K	
C89,90			CK73HB1A104K	CHIP C 0.10UF K		C168			CK73HB1H221K	CHIP C 220PF K	
C91			CC73HCH1H101J	CHIP C 100PF J		C169			CK73HB1A104K	CHIP C 0.10UF K	
C92			CK73GB1C104K	CHIP C 0.10UF K		C170			CK73HB1H221K	CHIP C 220PF K	
C93			CC73HCH1H221J	CHIP C 220PF J		C171			CK73HB1A104K	CHIP C 0.10UF K	
C94,95			CC73HCH1H470J	CHIP C 47PF J		C172			CK73HB1H221K	CHIP C 220PF K	
C96			CC73HCH1H221J	CHIP C 220PF J		C173			CK73GB1H104K	CHIP C 0.10UF K	
C97			CK73HB1C473K	CHIP C 0.047UF K		C175			CK73EB1E106K	CHIP C 10UF K	
C99			CK73HB1E103K	CHIP C 0.010UF K		C178			CK73EB1E106K	CHIP C 10UF K	
C100			CK73HB1E223K	CHIP C 0.022UF K		C180			CK73EB1E106K	CHIP C 10UF K	
C101			CK73HB1E153K	CHIP C 0.015UF K		C181			CK73EB1E225K	CHIP C 2.2UF K	
C103-105			CK73HB1H102K	CHIP C 1000PF K		C182			CK73HB1A104K	CHIP C 0.10UF K	
C106			CK73FB0J106K	CHIP C 10UF K		C183			CK73HB1H102K	CHIP C 1000PF K	
C107			CK73GB1H104K	CHIP C 0.10UF K		C184,185			CK73GB0J106M	CHIP C 10UF M	
C108			CK73HB1E103K	CHIP C 0.010UF K		C186-192			CK73HB1A104K	CHIP C 0.10UF K	
C109			CK73GB1C104K	CHIP C 0.10UF K		C193			CC73HCH1H180J	CHIP C 18PF J	
C110			CK73FB0J106K	CHIP C 10UF K		C194			CC73HCH1H220J	CHIP C 22PF J	
C111			CK73HB1E103K	CHIP C 0.010UF K		C195			CK73HB1E103K	CHIP C 0.010UF K	
C112-114			CK73GB1H104K	CHIP C 0.10UF K		C196			CK73HB1A104K	CHIP C 0.10UF K	
C115			CK73HB1H102K	CHIP C 1000PF K		C197			CK73HB1E103K	CHIP C 0.010UF K	
C116			CK73GB1C104K	CHIP C 0.10UF K		C199-201			CK73HB1A104K	CHIP C 0.10UF K	
C117,118			CK73HB1H102K	CHIP C 1000PF K		C202			CK73HB1E103K	CHIP C 0.010UF K	
C119			CK73EB1E225K	CHIP C 2.2UF K		C203			CK73HB1H102K	CHIP C 1000PF K	
C120			CK73HB1H102K	CHIP C 1000PF K		C229			CK73HB1E103K	CHIP C 0.010UF K	
C121-123			CK73GB1H104K	CHIP C 0.10UF K		C351			CK73HB0J105K	CHIP C 1.0UF K	
C124			CK73HB1H102K	CHIP C 1000PF K		C352			CE32CL1E330M	CHIP EL 33UF 25WV	
C125,126			CK73HB1E103K	CHIP C 0.010UF K		C353-358			CK73FB1C105K	CHIP C 1.0UF K	
C127-129			CK73HB1H102K	CHIP C 1000PF K		C359			CK73HB1H102K	CHIP C 1000PF K	
C130,131			CE32AV0J221M	CHIP EL 220UF 6.3WV		C360			CK73HB0J105K	CHIP C 1.0UF K	
C133			CK73HB1E103K	CHIP C 0.010UF K		C361			CK73HB1A104K	CHIP C 0.10UF K	
C134			CK73GB1H104K	CHIP C 0.10UF K		C362			CK73EB1C106K	CHIP C 10UF K	
C135,136			CE32BQ1E680M	CHIP EL 68UF 25WV		C363,364			CK73HB1H102K	CHIP C 1000PF K	
C137			CK73GB1H104K	CHIP C 0.10UF K		C365			CK73EB1C106K	CHIP C 10UF K	
C138			CK73HB1E103K	CHIP C 0.010UF K		C366			CK73HB1A104K	CHIP C 0.10UF K	
C139			CK73EB1E225K	CHIP C 2.2UF K		C367			CK73EB1C106K	CHIP C 10UF K	
C140,141			CK73HB1E103K	CHIP C 0.010UF K		C368,369			CK73HB1H102K	CHIP C 1000PF K	
C142-144			CK73HB1A104K	CHIP C 0.10UF K		C370			CK73EB1C106K	CHIP C 10UF K	
C145			CK73HB1E103K	CHIP C 0.010UF K		C371			CK73HB1A104K	CHIP C 0.10UF K	
C146			CK73EB1A106K	CHIP C 10UF K		C372			CK73EB1A106K	CHIP C 10UF K	
C147			CK73HB1A104K	CHIP C 0.10UF K		C373,374			CK73HB1H102K	CHIP C 1000PF K	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-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
C375			CK73EB1A106K	CHIP C 10UF K		C462			CK73HB0J105K	CHIP C 1.0UF K	
C376			CK73HB1E103K	CHIP C 0.010UF K		C463			CC73GCH1H101J	CHIP C 100PF J	KR1
C377			CK73GB1A474K	CHIP C 0.47UF K		C463			CC73GCH1H121J	CHIP C 120PF J	E1E2M1
C378			CK73GB0J106M	CHIP C 10UF M		C463			CC73GCH1H121J	CHIP C 120PF J	M2X1E3
C379			CK73GB1A474K	CHIP C 0.47UF K		C464			CC73GCH1H680J	CHIP C 68PF J	E1E2M1
C380-383			CK73FB1C105K	CHIP C 1.0UF K		C464			CC73GCH1H680J	CHIP C 68PF J	M2X1E3
C384			CK73FB1A475K	CHIP C 4.7UF K		C465			CK73HB0J105K	CHIP C 1.0UF K	E1E2M1
C385			CK73HB1H102K	CHIP C 1000PF K		C465			CK73HB0J105K	CHIP C 1.0UF K	M2X1E3
C386			CK73GB0J475K	CHIP C 4.7UF K		C466			CC73GCH1H100D	CHIP C 10PF D	E1E2M1
C387			CK73GB0J106M	CHIP C 10UF M		C466			CC73GCH1H100D	CHIP C 10PF D	M2X1E3
C388			CK73GB0J475K	CHIP C 4.7UF K		C466			CC73GCH1H101J	CHIP C 100PF J	KR1
C389			CK73HB1H102K	CHIP C 1000PF K		C467			CK73HB1A104K	CHIP C 0.10UF K	
C390-392			CK73HB1E103K	CHIP C 0.010UF K		C468			CK73GB0J106M	CHIP C 10UF M	
C397			CK73HB1A104K	CHIP C 0.10UF K		C469			CK73GB1C225K	CHIP C 2.2UF K	
C404			CK73EB1C106K	CHIP C 10UF K	KR1E1	C470			CK73HB0J105K	CHIP C 1.0UF K	
C404			CK73EB1C106K	CHIP C 10UF K	E2M1M2	C471			CK73GB1C225K	CHIP C 2.2UF K	
C404			CK73EB1C106K	CHIP C 10UF K	E3	C472-474			CK73HB0J105K	CHIP C 1.0UF K	
C405			CK73HB1E103K	CHIP C 0.010UF K	KR1E1	C475			CK73HB1A104K	CHIP C 0.10UF K	
C405			CK73HB1E103K	CHIP C 0.010UF K	E2M1M2	C476			CK73GB0J106M	CHIP C 10UF M	
C405			CK73HB1E103K	CHIP C 0.010UF K	E3	C477,478			CK73EB1A475K	CHIP C 4.7UF K	
C406,407			CC73HCH1H070D	CHIP C 7.0PF D	KR1E1	C479			CK73HB0J105K	CHIP C 1.0UF K	
C406,407			CC73HCH1H070D	CHIP C 7.0PF D	E2M1M2	C480			CK73HB1A104K	CHIP C 0.10UF K	
C406,407			CC73HCH1H070D	CHIP C 7.0PF D	E3	C481			CK73HB0J105K	CHIP C 1.0UF K	
C409			CK73EB1C106K	CHIP C 10UF K	KR1E1	C482			CK73EB1C106K	CHIP C 10UF K	
C409			CK73EB1C106K	CHIP C 10UF K	E2M1M2	C494-499			CK73HB0J105K	CHIP C 1.0UF K	
C409			CK73EB1C106K	CHIP C 10UF K	E3	C500			CK73HB1E103K	CHIP C 0.010UF K	
C410			CC73HCH1H331J	CHIP C 330PF J	KR1E1	C551			CK73FB1A225K	CHIP C 2.2UF K	
C410			CC73HCH1H331J	CHIP C 330PF J	E2M1M2	C601			CK73HB1A104K	CHIP C 0.10UF K	
C410			CC73HCH1H331J	CHIP C 330PF J	E3	C602,603			CK73HB1E103K	CHIP C 0.010UF K	
C411-413			CK73GB1A105K	CHIP C 1.0UF K		C604-606			CK73HB0J105K	CHIP C 1.0UF K	
C414			CK73HB1A104K	CHIP C 0.10UF K		C607			CK73GB0J106M	CHIP C 10UF M	
C417-419			CK73GB1A474K	CHIP C 0.47UF K	E1E2M1	C621-624			CK73HB1A104K	CHIP C 0.10UF K	
C417-419			CK73GB1A474K	CHIP C 0.47UF K	M2X1E3	C625			CK73GB0J475K	CHIP C 4.7UF K	
C423			CK73GB1A474K	CHIP C 0.47UF K		C626-630			CK73HB1A104K	CHIP C 0.10UF K	
C424			CK73GB0J106M	CHIP C 10UF M		C631			CK73GB0J475K	CHIP C 4.7UF K	
C425			CK73GB1A474K	CHIP C 0.47UF K		C632-638			CK73HB1A104K	CHIP C 0.10UF K	
C427			CK73HB1A104K	CHIP C 0.10UF K	E1E2M1	C655,656			CK73GB0J106M	CHIP C 10UF M	
C427			CK73HB1A104K	CHIP C 0.10UF K	M2X1E3	C657,658			CK73HB1A104K	CHIP C 0.10UF K	
C428,429			CK73FB1A335K	CHIP C 3.3UF K		C661,662			CK73GB0J106M	CHIP C 10UF M	
C430			CK73HB1A104K	CHIP C 0.10UF K	E1E2M1	C663,664			CK73HB1H222K	CHIP C 2200PF K	
C430			CK73HB1A104K	CHIP C 0.10UF K	M2X1E3	C665,666			CK73HB1H221K	CHIP C 220PF K	
C431			CK73FB1A475K	CHIP C 4.7UF K		C667,668			CK73GB0J106M	CHIP C 10UF M	
C432-434			CK73HB0J105K	CHIP C 1.0UF K		C672			CK73HB0J105K	CHIP C 1.0UF K	
C435,436			CK73GB1A105K	CHIP C 1.0UF K		C673			CK73GB0J106M	CHIP C 10UF M	
C437,438			CK73HB0J474K	CHIP C 0.47UF K		C681			CK73HB1A104K	CHIP C 0.10UF K	
C439,440			CK73GB1A105K	CHIP C 1.0UF K		C692,693			CK73GB1C104K	CHIP C 0.10UF K	
C441			CK73HB0J105K	CHIP C 1.0UF K		C701,702			CK73GB0J106M	CHIP C 10UF M	
C443			CK73HB1E103K	CHIP C 0.010UF K		C703	*		CE32BQ0J560M	CHIP EL 56UF 6.3WV	
C446			CK73HB1E103K	CHIP C 0.010UF K		C704			CK73HB0J105K	CHIP C 1.0UF K	
C447			CK73GB0J106M	CHIP C 10UF M		C705-725			CK73HB1A104K	CHIP C 0.10UF K	
C448,449			CK73FB1C105K	CHIP C 1.0UF K		C726,727			CC73GCH1H100D	CHIP C 10PF D	
C454,455			CC73HCH1H070D	CHIP C 7.0PF D		C728			CK73HB1A104K	CHIP C 0.10UF K	
C456			CE32CL1C470M	CHIP EL 47UF 16WV		C729,730			CC73HCH1H220J	CHIP C 22PF J	
C457			CE32BQ0J331M	CHIP EL 330UF 6.3WV		C731			CK73GB0J106M	CHIP C 10UF M	
C459,460			CK73HB1A104K	CHIP C 0.10UF K		C732,733			CK73HB1A104K	CHIP C 0.10UF K	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C734,735			CK73HB1H102K	CHIP C 1000PF K		L12,13			L92-0319-05	CHIP FERRITE	
C741			CK73GB0J475K	CHIP C 4.7UF K		L353			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	
C742-748			CK73HB1A104K	CHIP C 0.10UF K		L355			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	X1
C751			CK73GB0J475K	CHIP C 4.7UF K		L355,356			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	KR1E1
C752-758			CK73HB1A104K	CHIP C 0.10UF K		L355,356			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	E2M1M2
C761,762			CK73GB0J106M	CHIP C 10UF M		L355,356			L41-4795-33	SMALL FIXED INDUCTOR (4.7U)	E3
C763,764			CK73HB1A104K	CHIP C 0.10UF K		L357			L92-0319-05	CHIP FERRITE	
C801-804			CK73GB1A105K	CHIP C 1.0UF K		L361			L92-0319-05	CHIP FERRITE	
C807			CK73HB0J105K	CHIP C 1.0UF K		L451			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
C808,809			CK73HB1A104K	CHIP C 0.10UF K		L601-603			L92-0373-05	CHIP FERRITE	
C811			CK73HB0J105K	CHIP C 1.0UF K		L701-706			L92-0373-05	CHIP FERRITE	
C812-825			CK73HB1A104K	CHIP C 0.10UF K		L731			L92-0373-05	CHIP FERRITE	
C826			CK73HB0J105K	CHIP C 1.0UF K		L741			L92-0373-05	CHIP FERRITE	
C827,828			CK73HB1A104K	CHIP C 0.10UF K		L751			L92-0373-05	CHIP FERRITE	
C829			CK73HB0J105K	CHIP C 1.0UF K		L801			L92-0642-05	CHIP FERRITE	
C830			CK73HB1A104K	CHIP C 0.10UF K		L803			L92-0642-05	CHIP FERRITE	
C833			CK73HB0J105K	CHIP C 1.0UF K		L804,805			L92-0641-05	FERRITE CORE	
C834,835			CC73GC1H080D	CHIP C 8.0PF D		L806			L92-0651-05	CHIP FERRITE	
C836,837			CK73GB0J106M	CHIP C 10UF M		L811			L92-0373-05	CHIP FERRITE	
C840			CK73HB1A104K	CHIP C 0.10UF K		L851			L92-0373-05	CHIP FERRITE	
C841			CE32BF1C221M	CHIP EL 220UF 16WV		X1			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	
C842			CK73HB1A104K	CHIP C 0.10UF K		X2		*	L78-1226-05	RESONATOR (11.059MHZ)	
C843			CK73GB0J106M	CHIP C 10UF M		X351		*	L77-2978-05	CRYSTAL RESONATOR (SMD 4.332M)	KR1E1
C844			CK73HB1A104K	CHIP C 0.10UF K		X351		*	L77-2978-05	CRYSTAL RESONATOR (SMD 4.332M)	E2M1M2
C851			CK73GB0J106M	CHIP C 10UF M		X351		*	L77-2978-05	CRYSTAL RESONATOR (SMD 4.332M)	E3
C852			CK73HB1A104K	CHIP C 0.10UF K		X701			L77-2866-05	CRYSTAL RESONATOR (27MHZ)	
C853,854			CC73GC1H030C	CHIP C 3.0PF C		X808			L77-2943-05	CRYSTAL RESONATOR (24.000MHZ)	
C855			CK73HB1A104K	CHIP C 0.10UF K		X851			L77-2921-05	CRYSTAL RESONATOR (32.768KHZ)	
CN2			E41-2735-05	PIN ASSY		V	3D		N86-2605-48	BINDING HEAD TAPTITE SCREW	
CN3			E41-2608-05	FLAT CABLE CONNECTOR		CP701-715			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CN4	*		E41-2963-05	FLAT CABLE CONNECTOR		CP721-724			RK74HB1J330J	CHIP-COM 33 J 1/16W	
CN351	*		E41-2962-05	PIN ASSY		CP751,752			RK74HB1J103J	CHIP-COM 10K J 1/16W	
CN352			E41-2806-05	PIN ASSY		CP753,754			RK74HB1J220J	CHIP-COM 22 J 1/16W	
CN353	*		E41-2961-05	PIN ASSY		R1			RK73HB1J103J	CHIP R 10K J 1/16W	
CN354	*		E41-2960-05	PIN ASSY	E1E2M1	R2			RK73EB2E272J	CHIP R 2.7K J 1/4W	
CN354	*		E41-2960-05	PIN ASSY	M2X1E3	R3			RK73HB1J102J	CHIP R 1.0K J 1/16W	
CN355	*		E41-2958-05	PIN ASSY		R4			RK73HB1J473J	CHIP R 47K J 1/16W	
CN356			E40-9106-05	SOCKET FOR PIN ASSY		R5			RK73EB2E103J	CHIP R 10K J 1/4W	
CN357			E40-9093-05	SOCKET FOR PIN ASSY		R6			RK73EB2E102J	CHIP R 1.0K J 1/4W	
CN551	*		E41-2982-05	FLAT CABLE CONNECTOR		R7			RK73HB1J104J	CHIP R 100K J 1/16W	
CN701			E41-2603-05	FLAT CABLE CONNECTOR		R8			RK73EB2E272J	CHIP R 2.7K J 1/4W	
J1			E58-1043-05	RECTANGULAR RECEPTACLE		R9			RK73HB1J102J	CHIP R 1.0K J 1/16W	
J681			E11-0638-05	PHONE JACK		R10			RK73FB2B472J	CHIP R 4.7K J 1/8W	
W351	*		E30-6775-05	CORD WITH PLUG (FM/AM ANT)		R11			RK73HB1J223J	CHIP R 22K J 1/16W	
W801	*		E30-6778-05	CORD WITH CONNECTOR (USB)		R12,13		*	R92-5226-05	CHIP R 1K J 1/2W	
F1			F53-0306-05	FUSE (UL,CSA) 5A		R14			RK73HB1J000J	CHIP R 0.0 J 1/16W	E1E2E3
F2			F53-0297-05	FUSE (UL,CSA) 1.6A		R15			RK73FB2B472J	CHIP R 4.7K J 1/8W	
L1			L33-2369-05	CHOKE COIL		R16			RK73HB1J222J	CHIP R 2.2K J 1/16W	KR1M1
L2,3			L92-0373-05	CHIP FERRITE		R16			RK73HB1J222J	CHIP R 2.2K J 1/16W	M2X1
L4,5	*		L33-2455-05	CHOKE COIL		R17,18			RK73HB1J103J	CHIP R 10K J 1/16W	KR1M1
L6,7			L33-2369-05	CHOKE COIL		R17,18			RK73HB1J103J	CHIP R 10K J 1/16W	M2X1
L8,9	*		L33-2455-05	CHOKE COIL		R19,20		*	R92-5226-05	CHIP R 1K J 1/2W	KR1M1
L10,11			L33-2369-05	CHOKE COIL		R19,20		*	R92-5226-05	CHIP R 1K J 1/2W	M2X1
						R21			RK73HB1J000J	CHIP R 0.0 J 1/16W	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-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
R25			RK73HB1J104J	CHIP R 100K J 1/16W		R105,106			RK73GH2A561D	CHIP R 560 D 1/10W	
R26			RK73HB1J473J	CHIP R 47K J 1/16W		R107			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R27			RK73EB2E103J	CHIP R 10K J 1/4W		R108			RK73HB1J220J	CHIP R 22 J 1/16W	
R28,29			RK73EB2E622J	CHIP R 6.2K J 1/4W		R109,110			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R30			RK73GB2A912J	CHIP R 9.1K J 1/10W		R111			RK73HB1J220J	CHIP R 22 J 1/16W	
R31			RK73HB1J153J	CHIP R 15K J 1/16W		R112-116			RK73EB2E100J	CHIP R 10 J 1/4W	
R32			RK73HB1J473J	CHIP R 47K J 1/16W		R117,118			R92-5160-05	CHIP R 0.047 J 1/4W	
R33			RK73GH2A104D	CHIP R 100K D 1/10W		R119			R92-5159-05	CHIP R 0.033 J 1/4W	
R34			RK73GH2A333D	CHIP R 33K D 1/10W		R121			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R35			RK73GH2A513D	CHIP R 51K D 1/10W		R123			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R36			RK73GH2A684D	CHIP R 680K D 1/10W		R124			RK73GH2A681D	CHIP R 680 D 1/10W	
R37,38			RK73GB2A000J	CHIP R 0.0 J 1/10W		R125			RK73GH2A561D	CHIP R 560 D 1/10W	
R39			RK73GH2A683D	CHIP R 68K D 1/10W		R126			RK73GH2A562D	CHIP R 5.6K D 1/10W	
R40			RK73GH2A913D	CHIP R 91K D 1/10W		R127,128			RK73GB2A683J	CHIP R 68K J 1/10W	
R41-45			RK73HB1J224J	CHIP R 220K J 1/16W		R129			RK73GH2A103D	CHIP R 10K D 1/10W	
R46			RK73HB1J304J	CHIP R 300K J 1/16W		R130			RK73HB1J103J	CHIP R 10K J 1/16W	
R47			RK73HB1J303J	CHIP R 30K J 1/16W		R133,134			RK73GH2A333D	CHIP R 33K D 1/10W	
R48			RK73HB1J224J	CHIP R 220K J 1/16W		R135-140			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R49			RK73GB2A202J	CHIP R 2.0K J 1/10W		R141			RK73HB1J220J	CHIP R 22 J 1/16W	
R50			RK73HB1J101J	CHIP R 100 J 1/16W		R142,143			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R51			RK73HB1J224J	CHIP R 220K J 1/16W		R144			RK73HB1J220J	CHIP R 22 J 1/16W	
R52			RK73GB2A154J	CHIP R 150K J 1/10W		R145-149			RK73EB2E100J	CHIP R 10 J 1/4W	
R53			RK73GB2A164J	CHIP R 160K J 1/10W		R150			R92-5158-05	CHIP R 0.022 J 1/4W	
R54			RK73GH2A104D	CHIP R 100K D 1/10W		R153			R92-5158-05	CHIP R 0.022 J 1/4W	
R55			RK73GH2A154D	CHIP R 150K D 1/10W		R154-157			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R56			RK73GH2A433D	CHIP R 43K D 1/10W		R159-168			RK73HB1J101J	CHIP R 100 J 1/16W	
R57			RK73GB2A183J	CHIP R 18K J 1/10W		R170-172			RK73HB1J101J	CHIP R 100 J 1/16W	
R58			RK73HB1J000J	CHIP R 0.0 J 1/16W		R174			RK73GB2A272J	CHIP R 2.7K J 1/10W	
R59			RK73HB1J472J	CHIP R 4.7K J 1/16W		R175,176			RK73HB1J473J	CHIP R 47K J 1/16W	
R60			RK73HB1J561J	CHIP R 560 J 1/16W		R177			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R68			RK73GB2A823J	CHIP R 82K J 1/10W		R178,179			RK73HB1J473J	CHIP R 47K J 1/16W	
R69			RK73HB1J103J	CHIP R 10K J 1/16W		R180			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R70			RK73HB1J224J	CHIP R 220K J 1/16W		R181,182			RK73HB1J473J	CHIP R 47K J 1/16W	
R71			RK73HB1J333J	CHIP R 33K J 1/16W		R183,184			RK73EB2E101J	CHIP R 100 J 1/4W	
R72			RK73HB1J224J	CHIP R 220K J 1/16W		R185			RK73HB1J101J	CHIP R 100 J 1/16W	
R73			RK73FB2B221J	CHIP R 220 J 1/8W		R186			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R74			RK73GH2A273D	CHIP R 27K D 1/10W		R187,188			RK73EB2E101J	CHIP R 100 J 1/4W	
R75			RK73GH2A472D	CHIP R 4.7K D 1/10W		R193			RK73HB1J473J	CHIP R 47K J 1/16W	
R76			RK73GH2A333D	CHIP R 33K D 1/10W		R195			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R77			RK73GH2A393D	CHIP R 39K D 1/10W		R196			RK73HB1J473J	CHIP R 47K J 1/16W	
R78			RK73GH2A332D	CHIP R 3.3K D 1/10W		R198			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R79			RK73HB1J272J	CHIP R 2.7K J 1/16W		R201			RK73HB1J104J	CHIP R 100K J 1/16W	
R80			RK73HB1J104J	CHIP R 100K J 1/16W		R202-205			RK73HB1J103J	CHIP R 10K J 1/16W	K
R81			RK73HB1J473J	CHIP R 47K J 1/16W		R202-206			RK73HB1J103J	CHIP R 10K J 1/16W	R1E1E2
R88			RK73HB1J000J	CHIP R 0.0 J 1/16W		R202-206			RK73HB1J103J	CHIP R 10K J 1/16W	M1M2X1
R89			RK73GH2A681D	CHIP R 680 D 1/10W		R202-206			RK73HB1J103J	CHIP R 10K J 1/16W	E3
R90			RK73GH2A622D	CHIP R 6.2K D 1/10W		R207			RK73GB2A103J	CHIP R 10K J 1/10W	KM1M2
R91			RK73HB1J333J	CHIP R 33K J 1/16W		R207			RK73GB2A303J	CHIP R 30K J 1/10W	X1
R92			RK73GB2A683J	CHIP R 68K J 1/10W		R207			RK73GB2A332J	CHIP R 3.3K J 1/10W	E1E2E3
R93			RK73GH2A562D	CHIP R 5.6K D 1/10W		R208			RK73HB1J473J	CHIP R 47K J 1/16W	
R94			RK73HB1J103J	CHIP R 10K J 1/16W		R210,211			RK73HB1J123J	CHIP R 12K J 1/16W	
R95			RK73GH2A113D	CHIP R 11K D 1/10W		R212			RK73HB1J473J	CHIP R 47K J 1/16W	
R98,99			RK73GH2A333D	CHIP R 33K D 1/10W		R213-215			RK73HB1J101J	CHIP R 100 J 1/16W	
R100,101			RK73GH2A561D	CHIP R 560 D 1/10W		R216			RK73HB1J103J	CHIP R 10K J 1/16W	
R102-104			RK73HB1J000J	CHIP R 0.0 J 1/16W		R217-220			RK73HB1J101J	CHIP R 100 J 1/16W	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVIDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R221,222			RK73HB1J473J	CHIP R 47K J 1/16W		R370			RK73HB1J473J	CHIP R 47K J 1/16W	
R223			RK73HB1J104J	CHIP R 100K J 1/16W		R372			RK73HB1J223J	CHIP R 22K J 1/16W	
R224			RK73HB1J103J	CHIP R 10K J 1/16W		R374			RK73FB2B101J	CHIP R 100 J 1/8W	
R225			RK73HB1J473J	CHIP R 47K J 1/16W		R375			RK73HB1J471J	CHIP R 470 J 1/16W	
R227			RK73HB1J473J	CHIP R 47K J 1/16W		R376			RK73FB2B101J	CHIP R 100 J 1/8W	
R228,229			RK73HB1J222J	CHIP R 2.2K J 1/16W		R377			RK73HB1J471J	CHIP R 470 J 1/16W	
R230,231			RK73HB1J101J	CHIP R 100 J 1/16W		R378			RK73HB1J223J	CHIP R 22K J 1/16W	
R232			RK73HB1J102J	CHIP R 1.0K J 1/16W		R381			RK73HB1J223J	CHIP R 22K J 1/16W	
R233			RK73HB1J223J	CHIP R 22K J 1/16W		R383			RK73FB2B101J	CHIP R 100 J 1/8W	
R234			RK73HB1J102J	CHIP R 1.0K J 1/16W		R384			RK73HB1J471J	CHIP R 470 J 1/16W	
R235-242			RK73HB1J101J	CHIP R 100 J 1/16W		R385			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R243,244			RK73HB1J471J	CHIP R 470 J 1/16W		R386			RK73EB2E100J	CHIP R 10 J 1/4W	
R245-248			RK73HB1J103J	CHIP R 10K J 1/16W		R390			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R249-253			RK73HB1J473J	CHIP R 47K J 1/16W		R394			RK73EB2E100J	CHIP R 10 J 1/4W	
R254-256			RK73HB1J101J	CHIP R 100 J 1/16W		R400			RK73EB2E101J	CHIP R 100 J 1/4W	
R257			RK73HB1J473J	CHIP R 47K J 1/16W		R401			RK73HB1J100J	CHIP R 10 J 1/16W	
R258			RK73HB1J101J	CHIP R 100 J 1/16W	KR1	R402			RK73HB1J750J	CHIP R 75 J 1/16W	
R258-261			RK73HB1J101J	CHIP R 100 J 1/16W	E1E2M1	R403			RK73EB2E750J	CHIP R 75 J 1/4W	
R258-261			RK73HB1J101J	CHIP R 100 J 1/16W	M2X1E3	R404			RK73EB2E100J	CHIP R 10 J 1/4W	
R260,261			RK73HB1J101J	CHIP R 100 J 1/16W	KR1	R405			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R262			RK73HB1J000J	CHIP R 0.0 J 1/16W		R406			RK73EB2E100J	CHIP R 10 J 1/4W	
R263			RK73HB1J153J	CHIP R 15K J 1/16W		R407			RK73EB2E101J	CHIP R 100 J 1/4W	
R264			RK73HB1J473J	CHIP R 47K J 1/16W		R408			RK73HB1J100J	CHIP R 10 J 1/16W	
R265			RK73HB1J101J	CHIP R 100 J 1/16W		R409			RK73HB1J560J	CHIP R 56 J 1/16W	
R266			RK73HB1J472J	CHIP R 4.7K J 1/16W		R410			RK73EB2E101J	CHIP R 100 J 1/4W	
R267,268			RK73HB1J101J	CHIP R 100 J 1/16W		R411			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R269			RK73HB1J473J	CHIP R 47K J 1/16W		R412			RK73HB1J223J	CHIP R 22K J 1/16W	
R270,271			RK73HB1J472J	CHIP R 4.7K J 1/16W		R413			RK73HB1J222J	CHIP R 2.2K J 1/16W	KR1E1
R272-276			RK73HB1J473J	CHIP R 47K J 1/16W		R413			RK73HB1J222J	CHIP R 2.2K J 1/16W	E2M1M2
R277			RK73HB1J104J	CHIP R 100K J 1/16W		R413			RK73HB1J222J	CHIP R 2.2K J 1/16W	E3
R278-280			RK73HB1J473J	CHIP R 47K J 1/16W		R416,417			RK73HB1J222J	CHIP R 2.2K J 1/16W	KR1E1
R281			RK73HB1J000J	CHIP R 0.0 J 1/16W		R416,417			RK73HB1J222J	CHIP R 2.2K J 1/16W	E2M1M2
R282			RK73HB1J102J	CHIP R 1.0K J 1/16W		R416,417			RK73HB1J222J	CHIP R 2.2K J 1/16W	E3
R283			RK73HB1J152J	CHIP R 1.5K J 1/16W		R418			RK73EB2E100J	CHIP R 10 J 1/4W	
R284			RK73HB1J104J	CHIP R 100K J 1/16W		R419			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R286			RK73HB1J103J	CHIP R 10K J 1/16W		R420			RK73EB2E100J	CHIP R 10 J 1/4W	
R288			RK73HB1J103J	CHIP R 10K J 1/16W		R421			RK73EB2E101J	CHIP R 100 J 1/4W	
R351			RK73HB1J333J	CHIP R 33K J 1/16W		R422			RK73EB2E102J	CHIP R 1.0K J 1/4W	
R352			RK73HB1J100J	CHIP R 10 J 1/16W		R423			RK73EB2E101J	CHIP R 100 J 1/4W	
R353			RK73GB2A432J	CHIP R 4.3K J 1/10W		R424			RK73EB2E472J	CHIP R 4.7K J 1/4W	
R354			RK73HB1J471J	CHIP R 470 J 1/16W		R425-427			RK73HB1J101J	CHIP R 100 J 1/16W	
R355			RK73HB1J223J	CHIP R 22K J 1/16W		R428			RK73HB1J750J	CHIP R 75 J 1/16W	E1E2M1
R356			RK73GB2A221J	CHIP R 220 J 1/10W		R428			RK73HB1J750J	CHIP R 75 J 1/16W	M2X1E3
R357			RK73GB2A123J	CHIP R 12K J 1/10W		R438			RK73HB1J100J	CHIP R 10 J 1/16W	E1E2M1
R358			RK73FB2B101J	CHIP R 100 J 1/8W		R438			RK73HB1J100J	CHIP R 10 J 1/16W	M2X1E3
R359			RK73HB1J471J	CHIP R 470 J 1/16W		R439			RK73EB2E101J	CHIP R 100 J 1/4W	E1E2M1
R360			RK73HB1J223J	CHIP R 22K J 1/16W		R439			RK73EB2E101J	CHIP R 100 J 1/4W	M2X1E3
R361			RK73HB1J471J	CHIP R 470 J 1/16W		R440,441			RK73EB2E102J	CHIP R 1.0K J 1/4W	E1E2M1
R363			RK73HB1J223J	CHIP R 22K J 1/16W		R440,441			RK73EB2E102J	CHIP R 1.0K J 1/4W	M2X1E3
R364			RK73HB1J473J	CHIP R 47K J 1/16W		R442-444			RK73EB2E101J	CHIP R 100 J 1/4W	E1E2M1
R365			RK73FB2B101J	CHIP R 100 J 1/8W		R442-444			RK73EB2E101J	CHIP R 100 J 1/4W	M2X1E3
R366			RK73HB1J471J	CHIP R 470 J 1/16W		R445			RK73EB2E000J	CHIP R 0.0 J 1/4W	E1E2M1
R367			RK73FB2B101J	CHIP R 100 J 1/8W		R445			RK73EB2E000J	CHIP R 0.0 J 1/4W	M2X1E3
R368			RK73HB1J471J	CHIP R 470 J 1/16W		R446			RK73EB2E102J	CHIP R 1.0K J 1/4W	E1E2M1
R369			RK73HB1J223J	CHIP R 22K J 1/16W		R446			RK73EB2E102J	CHIP R 1.0K J 1/4W	M2X1E3

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R447			RK73HB1J100J	CHIP R 10 J 1/16W	E1E2M1	R568			RK73GB2A221J	CHIP R 220 J 1/10W	
R447			RK73HB1J100J	CHIP R 10 J 1/16W	M2X1E3	R569			RK73GB2A561J	CHIP R 560 J 1/10W	
R448			RK73EB2E102J	CHIP R 1.0K J 1/4W	E1E2M1	R570			RK73GB2A221J	CHIP R 220 J 1/10W	
R448			RK73EB2E102J	CHIP R 1.0K J 1/4W	M2X1E3	R571			RK73GB2A561J	CHIP R 560 J 1/10W	
R449			RK73EB2E100J	CHIP R 10 J 1/4W	E1E2M1	R572			RK73GB2A221J	CHIP R 220 J 1/10W	
R449			RK73EB2E100J	CHIP R 10 J 1/4W	M2X1E3	R573			RK73GB2A561J	CHIP R 560 J 1/10W	
R450			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	E1E2M1	R574			RK73GB2A221J	CHIP R 220 J 1/10W	
R450			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	M2X1E3	R575			RK73GB2A561J	CHIP R 560 J 1/10W	
R451,452			RK73EB2E100J	CHIP R 10 J 1/4W	E1E2M1	R576			RK73GB2A221J	CHIP R 220 J 1/10W	
R451,452			RK73EB2E100J	CHIP R 10 J 1/4W	M2X1E3	R577			RK73GB2A561J	CHIP R 560 J 1/10W	
R452			RK73EB2E100J	CHIP R 10 J 1/4W	KR1	R578			RK73GB2A221J	CHIP R 220 J 1/10W	
R453			RK73EB2E4R7J	CHIP R 4.7 J 1/4W		R579			RK73GB2A220J	CHIP R 22 J 1/10W	
R454			RK73EB2E100J	CHIP R 10 J 1/4W		R580			RK73GB2A181J	CHIP R 180 J 1/10W	
R455			RK73HB1J100J	CHIP R 10 J 1/16W		R581			RK73GB2A391J	CHIP R 390 J 1/10W	
R456			RK73EB2E101J	CHIP R 100 J 1/4W		R582-586			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R457			RK73HB1J100J	CHIP R 10 J 1/16W		R587			RK73GB2A182J	CHIP R 1.8K J 1/10W	
R458			RK73EB2E101J	CHIP R 100 J 1/4W		R588			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R459			RK73HB1J100J	CHIP R 10 J 1/16W		R589			RK73GB2A512J	CHIP R 5.1K J 1/10W	
R460			RK73EB2E101J	CHIP R 100 J 1/4W		R590			RK73GB2A163J	CHIP R 16K J 1/10W	
R461			RK73HB1J100J	CHIP R 10 J 1/16W		R591			RK73GB2A513J	CHIP R 51K J 1/10W	
R462			RK73EB2E101J	CHIP R 100 J 1/4W		R612			RK73GH2A750D	CHIP R 75 D 1/10W	
R463-466			RK73HB1J750J	CHIP R 75 J 1/16W		R613			RK73GH2A301D	CHIP R 300 D 1/10W	
R467-469			RK73EB2E102J	CHIP R 1.0K J 1/4W		R614			RK73GH2A330D	CHIP R 33 D 1/10W	
R470			RK73HB1J104J	CHIP R 100K J 1/16W		R620-625			RK73GH2A750D	CHIP R 75 D 1/10W	
R471			RK73HB1J102J	CHIP R 1.0K J 1/16W		R626			RK73GH2A360D	CHIP R 36 D 1/10W	
R472-475			RK73HB1J103J	CHIP R 10K J 1/16W		R627			RK73GH2A151D	CHIP R 150 D 1/10W	
R476			RK73HB1J101J	CHIP R 100 J 1/16W		R651-654			RK73HB1J220J	CHIP R 22 J 1/16W	
R477			RK73HB1J103J	CHIP R 10K J 1/16W		R661,662			RK73HB1J203J	CHIP R 20K J 1/16W	
R478			RK73HB1J101J	CHIP R 100 J 1/16W		R663,664			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R479			RK73GB2A472J	CHIP R 4.7K J 1/10W		R665,666			RK73HB1J153J	CHIP R 15K J 1/16W	
R480			RK73HB1J272J	CHIP R 2.7K J 1/16W		R667,668			RK73HB1J561J	CHIP R 560 J 1/16W	
R481,482			RK73HB1J122J	CHIP R 1.2K J 1/16W		R669,670			RK73HB1J473J	CHIP R 47K J 1/16W	
R483			RK73GB2A103J	CHIP R 10K J 1/10W		R673,674			RK73HB1J272J	CHIP R 2.7K J 1/16W	
R486,487			RK73HB1J102J	CHIP R 1.0K J 1/16W		R676			RK73HB1J104J	CHIP R 100K J 1/16W	
R488,489			RK73HB1J100J	CHIP R 10 J 1/16W		R677			RK73HB1J394J	CHIP R 390K J 1/16W	
R492			RK73HB1J332J	CHIP R 3.3K J 1/16W		R681			RK73HB1J103J	CHIP R 10K J 1/16W	
R493,494			RK73GH2A271D	CHIP R 270 D 1/10W		R683			RK73HB1J220J	CHIP R 22 J 1/16W	
R495			RK73GH2A123D	CHIP R 12K D 1/10W		R684,685			RK73HB1J331J	CHIP R 330 J 1/16W	
R501-503			RK73HB1J000J	CHIP R 0.0 J 1/16W		R686			RK73HB1J220J	CHIP R 22 J 1/16W	
R510,511			RK73GH2A102D	CHIP R 1.0K D 1/10W		R687			RK73HB1J103J	CHIP R 10K J 1/16W	
R512,513			RK73HB1J101J	CHIP R 100 J 1/16W		R688			RK73HB1J220J	CHIP R 22 J 1/16W	
R515			RK73HB1J101J	CHIP R 100 J 1/16W		R690			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R516-519			RK73GH2A102D	CHIP R 1.0K D 1/10W		R691			RK73HB1J100J	CHIP R 10 J 1/16W	
R543-548			RK73HB1J105J	CHIP R 1.0M J 1/16W		R692			RK73GB2A151J	CHIP R 150 J 1/10W	
R551			RK73GB2A101J	CHIP R 100 J 1/10W		R693			RK73EB2E750J	CHIP R 75 J 1/4W	
R554			RK73GB2A332J	CHIP R 3.3K J 1/10W		R694,695			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R556			RK73GB2A822J	CHIP R 8.2K J 1/10W		R696			RK73HB1J220J	CHIP R 22 J 1/16W	
R559			RK73EB2E101J	CHIP R 100 J 1/4W		R697,698			RK73GB2A151J	CHIP R 150 J 1/10W	
R561			RK73GB2A561J	CHIP R 560 J 1/10W		R699			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R562			RK73GB2A221J	CHIP R 220 J 1/10W		R702			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R563			RK73GB2A561J	CHIP R 560 J 1/10W		R703			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R564			RK73GB2A221J	CHIP R 220 J 1/10W		R704			RK73HB1J101J	CHIP R 100 J 1/16W	
R565			RK73GB2A561J	CHIP R 560 J 1/10W		R706-708			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R566			RK73GB2A221J	CHIP R 220 J 1/10W		R709-714			RK73HB1J220J	CHIP R 22 J 1/16W	
R567			RK73GB2A561J	CHIP R 560 J 1/10W		R715-730			RK73HB1J000J	CHIP R 0.0 J 1/16W	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVEDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R732-738			RK73HB1J220J	CHIP R 22 J 1/16W		D3			UDZW6.2(B)	ZENER DIODE	
R739,740			RK73HB1J000J	CHIP R 0.0 J 1/16W		D4,5			1SS355	DIODE	
R742-747			RK73HB1J000J	CHIP R 0.0 J 1/16W		D6-9			1SR154-400	DIODE	
R748-753			RK73HB1J220J	CHIP R 22 J 1/16W		D11			UDZW4.7(B)	ZENER DIODE	
R754-756			RK73HB1J000J	CHIP R 0.0 J 1/16W		D12			1SS355	DIODE	
R758			RK73HB1J105J	CHIP R 1.0M J 1/16W		D13			UDZW6.2(B)	ZENER DIODE	
R759			RK73HB1J102J	CHIP R 1.0K J 1/16W		D14			EP05Q04	DIODE	
R760-762			RK73HB1J000J	CHIP R 0.0 J 1/16W		D15-18			1SS357-F	DIODE	
R763,764			RK73HB1J220J	CHIP R 22 J 1/16W		D19-23			CVS10A120M	VARIATOR	
R765			RK73HB1J000J	CHIP R 0.0 J 1/16W		D24,25			CVS10A180M	VARIATOR	
R769			RK73GH2A153D	CHIP R 15K D 1/10W		D27-31			CVS10A120M	VARIATOR	
R770			RK73GH2A123D	CHIP R 12K D 1/10W		D32			DA204U	DIODE	
R772,773			RK73HB1J103J	CHIP R 10K J 1/16W		D33-36			CVS10A120M	VARIATOR	
R776			RK73HB1J103J	CHIP R 10K J 1/16W		D37			CVS10A180M	VARIATOR	
R777			RK73HB1J102J	CHIP R 1.0K J 1/16W		D39			CVS10A180M	VARIATOR	
R805,806			RK73EB2E4R7J	CHIP R 4.7 J 1/4W		D40,41			CVS10A120M	VARIATOR	
R810,811			RK73HB1J000J	CHIP R 0.0 J 1/16W		D42			1SS355	DIODE	
R812			RK73HB1J103J	CHIP R 10K J 1/16W		D351			DAP202U	DIODE	
R814			RK73HB1J103J	CHIP R 10K J 1/16W		D352			1SS355	DIODE	
R815			RK73GH2A622D	CHIP R 6.2K D 1/10W		D353,354			CVS10A180M	VARIATOR	
R816,817			RK73HB1J220J	CHIP R 22 J 1/16W		D355,356			DAP202U	DIODE	
R820			RK73HB1J000J	CHIP R 0.0 J 1/16W		D357,358			CVS10A180M	VARIATOR	
R823			RK73HB1J103J	CHIP R 10K J 1/16W		D359,360			DAP202U	DIODE	
R825			RK73HB1J102J	CHIP R 1.0K J 1/16W		D361,362			CVS10A180M	VARIATOR	
R826			RK73HB1J103J	CHIP R 10K J 1/16W		D363,364			DAP202U	DIODE	
R831			RK73HB1J000J	CHIP R 0.0 J 1/16W		D365			UDZW6.8(B)	ZENER DIODE	
R832			RK73GB2A515J	CHIP R 5.1M J 1/10W		D366			UDZW6.2(B)	ZENER DIODE	
R833-836			RK73HB1J103J	CHIP R 10K J 1/16W		D367			UDZW6.8(B)	ZENER DIODE	
R837			RK73HB1J000J	CHIP R 0.0 J 1/16W		D368			DAP202U	DIODE	
R838			RK73HB1J220J	CHIP R 22 J 1/16W		D369-376			CVL10C270M300	VARIATOR	
R840,841			RK73HB1J103J	CHIP R 10K J 1/16W		D378			UDZW6.8(B)	ZENER DIODE	
R843			RK73HB1J000J	CHIP R 0.0 J 1/16W		D379			UDZW6.2(B)	ZENER DIODE	
R844			RK73HB1J103J	CHIP R 10K J 1/16W		D380,381			CVS10A120M	VARIATOR	
R845			RK73GH2A104D	CHIP R 100K D 1/10W		D382,383			UDZS6.2B	ZENER DIODE	
R846			RK73HB1J102J	CHIP R 1.0K J 1/16W		D384			CVL10C270M300	VARIATOR	E1E2M1
R847			RK73HB1J103J	CHIP R 10K J 1/16W		D384			CVL10C270M300	VARIATOR	M2X1E3
R848			RK73HB1J104J	CHIP R 100K J 1/16W		D388			UDZW6.2(B)	ZENER DIODE	E1E2M1
R851			RK73HB1J473J	CHIP R 47K J 1/16W		D388			UDZW6.2(B)	ZENER DIODE	M2X1E3
R852			RK73HB1J000J	CHIP R 0.0 J 1/16W		D389-392			CVS10A120M	VARIATOR	E1E2M1
R854-856			RK73HB1J103J	CHIP R 10K J 1/16W		D389-392			CVS10A120M	VARIATOR	M2X1E3
R857,858			RK73HB1J152J	CHIP R 1.5K J 1/16W		D393			UDZW6.8(B)	ZENER DIODE	E1E2M1
R859-861			RK73HB1J472J	CHIP R 4.7K J 1/16W		D393			UDZW6.8(B)	ZENER DIODE	M2X1E3
R863-880			RK73HB1J103J	CHIP R 10K J 1/16W		D394,395			UDZW6.2(B)	ZENER DIODE	E1E2M1
R881			RK73GB2A202J	CHIP R 2.0K J 1/10W		D394,395			UDZW6.2(B)	ZENER DIODE	M2X1E3
R883			RK73HB1J103J	CHIP R 10K J 1/16W		D396			UDZW6.8(B)	ZENER DIODE	
R884,885			RK73HB1J000J	CHIP R 0.0 J 1/16W		D397-400			CVL10C270M300	VARIATOR	
R886,887			RK73HB1J473J	CHIP R 47K J 1/16W		D401			UDZW6.8(B)	ZENER DIODE	
R900			RK73HB1J220J	CHIP R 22 J 1/16W		D402,403			UDZW6.2(B)	ZENER DIODE	
R915			RK73HB1J000J	CHIP R 0.0 J 1/16W		D404,405			1SS355	DIODE	
R919			RK73HB1J000J	CHIP R 0.0 J 1/16W		D406-408			DAP202U	DIODE	
R920			RK73HB1J103J	CHIP R 10K J 1/16W		D409			UDZW6.8(B)	ZENER DIODE	KR1
S551-560			S70-0901-05	TACT SWITCH		D409,410			UDZW6.8(B)	ZENER DIODE	E1E2M1
						D409,410			UDZW6.8(B)	ZENER DIODE	M2X1E3
						D411-414			UDZW6.2(B)	ZENER DIODE	E1E2M1
D1,2			1SS355	DIODE		D411-414			UDZW6.2(B)	ZENER DIODE	M2X1E3

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
D413,414 D415 D571-591 D592 D651			UDZW6.2(B) 1SS355 CVS10A180M CVL10C270M300 DAP202U	ZENER DIODE DIODE VARISTOR VARISTOR DIODE	KR1	Q6 Q7 Q8 Q8 Q9			DTA114EE DTC143ZE 2SB1188(R) 2SB1188(R) 2SC4617	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	KR1M1 M2X1 KR1M1
D681 D682 D701 D801,802 IC1			CVL10C270M300 DA204U DAP202U AVRL1613R3FTA XC6201P502PR	VARISTOR DIODE DIODE VARISTOR ANALOGUE IC		Q9 Q11-13 Q14 Q15 Q16			2SC4617 2SC4617 2SA1774 DTC143ZE 2SA1774	TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	M2X1
IC2 IC3,4 IC5,6 IC7 IC8			M5237ML-CF0J LTC3728LEGN LB1836M-TLM-E R1114N331B-TR 74AHC1G08GW	ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC (3.3V LF) MOS-IC		Q17 Q18 Q19 Q20 Q21,22			2SC4617 DTA114TUA DTA114EE DTC143ZE 2SC4617	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
IC9 IC10 IC10 IC10 IC10 IC10 IC12 IC13 IC351 IC354 IC355		*	30878MJB A22GP W05-1387-00 W05-1388-00 W05-1388-00 W05-1389-00 W05-1390-00 S-80835C NNB-G 74AHC1G32GW E-TDA7850A NJM2505AF-ZB E-TDA7478AD	MICROCONTROLLER IC ROM IC ROM IC ROM IC ROM IC ROM IC MOS-IC MOS-IC ANALOGUE IC ANALOGUE IC ANALOGUE IC	K E1E2E3 M2 M1 R1X1	Q23 Q24 Q25 Q26 Q27			2SB1184 2SC4617 2SA1774 2SC4617 2SA1576A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
IC355 IC355 IC356 IC357 IC358		*	E-TDA7478AD E-TDA7478AD 74AHCT08PW E-TDA7415CB AK4220	ANALOGUE IC ANALOGUE IC MOS-IC ANALOGUE IC ANALOGUE IC	KR1E1 E2M1M2 E3	Q28 Q29 Q30 Q35 Q36,37			2SC4617 DTC143ZE 2SB1689 DTC114YE 2SA1774	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	
IC361 IC401,402 IC401,402 IC551 IC601			NJM2286V-ZB 74AHC1GU04GW 74AHC1GU04GW PNA4S22M02KW MM1671XNRE	ANALOGUE IC MOS-IC MOS-IC ANALOGUE IC ANALOGUE IC	E1E2M1 M2X1E3	Q38 Q39 Q40 Q41 Q42			TPC8110-F KTA1046-P 2SA1576A 2SC4081 2SA1576A	FET TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
IC602 IC651 IC652 IC691 IC692			NJM2573V-ZB PCM1754DB NJM4565V-ZB 74AHC1G04GW 74AHC1G08GW	ANALOGUE IC MOS-IC ANALOGUE IC MOS-IC MOS-IC		Q43 Q44 Q45 Q46 Q51			2SC4081 2SA1576A DTC143ZE TPC8110-F DTC124XUA	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR FET DIGITAL TRANSISTOR	
IC701 IC702 IC703,704 IC705 IC801		*	MS8312A-IQG S29GL64A914Z4 A2V28S40CTPG6 SI-3010KD S1R72C05F15	MICROPROCESSOR IC ROM IC DRAM IC ANALOGUE IC MOS-IC		Q52 Q53 Q54,55 Q56,57 Q58,59			DTC143ZE DTC124XUA HAT2218R-E DTC124XUA HAT2218R-E	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DUAL FET DIGITAL TRANSISTOR DUAL FET	
IC804 IC805 IC806 IC807 IC851		*	MIC2005-08YM6 XC6219B332PR XC6219B182PR 74AHC573PW 341S2094	MOS-IC ANALOGUE IC ANALOGUE IC MOS-IC MICROPROCESSOR IC		Q60 Q61 Q62 Q63 Q64			2SA1576A 2SC4617 2SA1576A 2SC4617 2SA1576A	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q1 Q2 Q3 Q4 Q5			DTC124EE DTA143ZE DTC124EE 2SB1188(R) 2SA1774	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		Q65 Q66 Q67 Q68 Q69			2SC4617 DTB123YK DTC143EE DTB123YK DTC143EE	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
Q6 Q7 Q8 Q8 Q9			DTA114EE DTC143ZE 2SB1188(R) 2SB1188(R) 2SC4617	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		Q71 Q72 Q73,74 Q75 Q76			DTA124EE DTC124EE DTC144EE DTA114EUA 2SK3019	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR FET	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVIDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

VIDEO CONTROL UNIT (X15-110x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
Q77			DTA124XUA	DIGITAL TRANSISTOR		C25		*	C93-1460-05	CHIP C 2200PF	F
Q78,79			2SK3019	FET		C28			C93-1283-05	CHIP C 1.0UF	K
Q80			DTA114EE	DIGITAL TRANSISTOR		C100			CC73GCH1H151J	CHIP C 150PF	J
Q82			DTA124EE	DIGITAL TRANSISTOR		C101			CK73GB1C104K	CHIP C 0.10UF	K
Q350			2SC4081	TRANSISTOR		C102			CK73FB0J106K	CHIP C 10UF	K
Q351			DTC143TUA	DIGITAL TRANSISTOR		C103			CK73GB1H103K	CHIP C 0.010UF	K
Q352			DTA144EE	DIGITAL TRANSISTOR		C104		*	CK73FB1C106K	CHIP C 10UF	K
Q353,354			DTC143TUA	DIGITAL TRANSISTOR		C105			CK73GB1C104K	CHIP C 0.10UF	K
Q355			DTA144EE	DIGITAL TRANSISTOR		C106			CK73EB1A106K	CHIP C 10UF	K
Q356,357			DTC143TUA	DIGITAL TRANSISTOR		C107			CK73EB1C106K	CHIP C 10UF	K
Q358			DTA144EE	DIGITAL TRANSISTOR		C108			CK73GB1C104K	CHIP C 0.10UF	K
Q359			DTC124EE	DIGITAL TRANSISTOR		C109			CK73FB1C105K	CHIP C 1.0UF	K
Q360			DTC143TUA	DIGITAL TRANSISTOR		C110			CK73GB1H103K	CHIP C 0.010UF	K
Q361			2SA1577	TRANSISTOR		C112			CK73FB1E154K	CHIP C 0.15UF	K
Q362			DTC124EE	DIGITAL TRANSISTOR		C113			CK73EB1E225K	CHIP C 2.2UF	K
Q370			2SC4081	TRANSISTOR		C114			CK73GB1C224K	CHIP C 0.22UF	K
Q371			DTA144EE	DIGITAL TRANSISTOR		C115			CK73GB1C104K	CHIP C 0.10UF	K
Q372,373			DTC143TUA	DIGITAL TRANSISTOR		C116			CK73EB0J226K	CHIP C 22UF	K
Q451			2SA1576A	TRANSISTOR		C117			CK73HB1H102K	CHIP C 1000PF	K
Q452			DTC144EE	DIGITAL TRANSISTOR	E1E2M1	C118			CK73GB1H103K	CHIP C 0.010UF	K
Q452			DTC144EE	DIGITAL TRANSISTOR	M2X1E3	C119			CK73HB1E103K	CHIP C 0.010UF	K
Q453			2SA1774	TRANSISTOR		C120			CK73GB1C104K	CHIP C 0.10UF	K
Q454,455			DTC144EE	DIGITAL TRANSISTOR		C121			CK73HB1E103K	CHIP C 0.010UF	K
Q651,652			DTC143TUA	DIGITAL TRANSISTOR		C122			CK73HB1A104K	CHIP C 0.10UF	K
Q653			DTA114EUA	DIGITAL TRANSISTOR		C129			CK73EB1C106K	CHIP C 10UF	K
Q654			2SA1774	TRANSISTOR		C130			CK73GB1H103K	CHIP C 0.010UF	K
Q655			2SC4617	TRANSISTOR		C131			CK73EB1E106K	CHIP C 10UF	K
Q681			2SA1576A	TRANSISTOR		C132			CK73GB1H104K	CHIP C 0.10UF	K
Q683			DTC143ZE	DIGITAL TRANSISTOR		C133			CK73GB1H103K	CHIP C 0.010UF	K
TH351			PRF18BE471QS2	POSITIVE RESISTOR		C134			CK73FB0J106K	CHIP C 10UF	K
A1		*	X86-4030-16	FRONT-END UNIT	KR1X1	C135			CK73GB1H103K	CHIP C 0.010UF	K
A1		*	X86-4032-72	FRONT-END UNIT	E1E2M1	C140			CC73GCH1H151J	CHIP C 150PF	J
A1		*	X86-4032-72	FRONT-END UNIT	M2E3	C145			CK73EB1C106K	CHIP C 10UF	K
VIDEO UNIT (X35-4960-10)											
D451-453			B30-3201-05	LED (RGB F3)		C150,151		*	CK73FB1C106K	CHIP C 10UF	K
C1,2			CK73EB1E106K	CHIP C 10UF	K	C200			CK73EB1A106K	CHIP C 10UF	K
C3			C93-1283-05	CHIP C 1.0UF	K	C202			CK73EB1C106K	CHIP C 10UF	K
C5			C93-1363-05	CHIP C 10PF		C203			CK73HB1E103K	CHIP C 0.010UF	K
C6		*	C93-1464-05	CHIP C 0.012UF	F	C204			CC73HCH1H560J	CHIP C 56PF	J
C7			CK73GB1H473K	CHIP C 0.047UF	K	C205			CK73EB1C106K	CHIP C 10UF	K
C8			C93-1383-05	CHIP C 220PF	F	C206			CK73HB1E103K	CHIP C 0.010UF	K
C9			CK73GB0J225K	CHIP C 2.2UF	K	C221			CK73GB1C104K	CHIP C 0.10UF	K
C11			CK73GB0J225K	CHIP C 2.2UF	K	C222			CC73HCH1H102J	CHIP C 1000PF	J
C12			CK73HB1E103K	CHIP C 0.010UF	K	C223-225			CK73EB1C106K	CHIP C 10UF	K
C13			CK73GB1A474K	CHIP C 0.47UF	K	C300			CK73GB1A105K	CHIP C 1.0UF	K
C14			CK73HB1E103K	CHIP C 0.010UF	K	C301			CK73GB1H103K	CHIP C 0.010UF	K
C15			CK73GB1H473K	CHIP C 0.047UF	K	C302			CK73FB0J106K	CHIP C 10UF	K
C16			CK73HB1C183K	CHIP C 0.018UF	K	C303			CK73GB1H103K	CHIP C 0.010UF	K
C17			CK73HB1E103K	CHIP C 0.010UF	K	C304			CK73GB1A105K	CHIP C 1.0UF	K
C18			C93-1283-05	CHIP C 1.0UF	K	C306			CC73HCH1H101J	CHIP C 100PF	J
C21			CK73GB0J225K	CHIP C 2.2UF	K	C307			CK73HB1A104K	CHIP C 0.10UF	K
C22			CK73HB1H152K	CHIP C 1500PF	K	C308			CC73HCH1H101J	CHIP C 100PF	J
C23			CK73EB1E106K	CHIP C 10UF	K	C309-314			CK73HB1A104K	CHIP C 0.10UF	K
C24			CK73GB1H103K	CHIP C 0.010UF	K	C315			CC73HCH1H101J	CHIP C 100PF	J
						C316-318			CK73HB1E103K	CHIP C 0.010UF	K
						C319-321			CK73HB1A104K	CHIP C 0.10UF	K

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO UNIT (X35-4960-10)

Ref. No.	Add	New	Parts No.	Description	Destination
C322,323			CK73HB1E103K	CHIP C 0.010UF K	
C324			CC73HCH1H101J	CHIP C 100PF J	
C325,326			CK73HB1E103K	CHIP C 0.010UF K	
C327,328			CC73GCH1H180J	CHIP C 18PF J	
C329-331			CC73HCH1H101J	CHIP C 100PF J	
C332-338			CK73HB1E103K	CHIP C 0.010UF K	
C339			CK73GB1C104K	CHIP C 0.10UF K	
C340,341			CK73HB1E103K	CHIP C 0.010UF K	
C342			CK73HB1A104K	CHIP C 0.10UF K	
C343			CK73HB1E103K	CHIP C 0.010UF K	
C344,345			CK73HB1A104K	CHIP C 0.10UF K	
C346,347			CK73HB1H102K	CHIP C 1000PF K	
C348			CC73HCH1H101J	CHIP C 100PF J	
C349			CK73HB1H102K	CHIP C 1000PF K	
C350			CK73FB0J106K	CHIP C 10UF K	
C351			CK73HB1A104K	CHIP C 0.10UF K	
C352			CK73FB0J106K	CHIP C 10UF K	
C353			CK73HB1A104K	CHIP C 0.10UF K	
C354			CK73FB0J106K	CHIP C 10UF K	
C355			CK73HB1A104K	CHIP C 0.10UF K	
C356			CK73HB1E103K	CHIP C 0.010UF K	
C357			CC73HCH1H101J	CHIP C 100PF J	
C360-365			CK73HB1A104K	CHIP C 0.10UF K	
C401			CK73HB1H102K	CHIP C 1000PF K	
C500			CK73GB0J225K	CHIP C 2.2UF K	
C501-503			CK73HB1E103K	CHIP C 0.010UF K	
C504			CK73FB0J106K	CHIP C 10UF K	
C505			CK73GB1A105K	CHIP C 1.0UF K	
C506			CK73FB0J106K	CHIP C 10UF K	
C507			CK73EB1E105K	CHIP C 1.0UF K	
CN1			E41-2874-05	PIN ASSY	
CN101			E41-2608-05	FLAT CABLE CONNECTOR	
CN102			E41-2264-05	PIN ASSY	
CN103			E41-2359-05	PIN ASSY	
CN104			E41-2444-05	FLAT CABLE CONNECTOR	
CN302			E41-2761-05	FLAT CABLE CONNECTOR	
CN501			E41-2087-05	FLAT CABLE CONNECTOR	
CN502			E41-2762-05	FLAT CABLE CONNECTOR	
CN503			E41-2901-15	FLAT CABLE CONNECTOR	
F1			F53-0297-05	FUSE (UL,CSA) 1.6A	
F100			F53-0280-05	FUSE 0.63A	
L1			L19-0783-05	TRANSFORMER FOR CONVERTER	
L100		*	L33-2454-05	CHOKE COIL	
L101,102			L41-3392-13	SMALL FIXED INDUCTOR (3.3UH)	
L103			L41-4792-13	SMALL FIXED INDUCTOR (4.7UH)	
L104-106			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L200			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L300		*	L33-2454-05	CHOKE COIL	
L302-304			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L305-307			L92-0319-05	CHIP FERRITE	
L308			L41-1005-33	SMALL FIXED INDUCTOR (10U)	
L309-312			L92-0319-05	CHIP FERRITE	
L314			L41-8281-15	SMALL FIXED INDUCTOR (0.82U)	
L501			L41-1005-33	SMALL FIXED INDUCTOR (10U)	

Ref. No.	Add	New	Parts No.	Description	Destination
X300			L77-2963-05	CRYSTAL RESONATOR (12M)	
R1			RK73HB1J512J	CHIP R 5.1K J 1/16W	
R3			RK73HB1J220J	CHIP R 22 J 1/16W	
R4			RK73GH2A433D	CHIP R 43K D 1/10W	
R5			RK73HB1J153J	CHIP R 15K J 1/16W	
R6			RK73HH1J563D	CHIP R 56K D 1/16W	
R7			RK73HB1J220J	CHIP R 22 J 1/16W	
R8			RK73HB1J512J	CHIP R 5.1K J 1/16W	
R9			RK73HH1J204D	CHIP R 200K D 1/16W	
R10			RK73FB2B152J	CHIP R 1.5K J 1/8W	
R11			RK73HB1J220J	CHIP R 22 J 1/16W	
R12			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R13			RK73HB1J220J	CHIP R 22 J 1/16W	
R14			RK73GH2A471D	CHIP R 470 D 1/10W	
R15			RK73GH2A513D	CHIP R 51K D 1/10W	
R16,17			RK73HB1J220J	CHIP R 22 J 1/16W	
R18			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R21			RK73HB1J104J	CHIP R 100K J 1/16W	
R22			RK73GB2A515J	CHIP R 5.1M J 1/10W	
R23			RK73HH1J824D	CHIP R 820K D 1/16W	
R24			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R100			RK73HB1J100J	CHIP R 10 J 1/16W	
R101			RK73GH2A104D	CHIP R 100K D 1/10W	
R102			RK73GH2A113D	CHIP R 11K D 1/10W	
R103			RK73GH2A164D	CHIP R 160K D 1/10W	
R104			RK73GH2A123D	CHIP R 12K D 1/10W	
R105			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R108,109			RK73GB2A103J	CHIP R 10K J 1/10W	
R110			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R111			RK73HB1J473J	CHIP R 47K J 1/16W	
R112			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R113,114			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R118			RK73HB1J754J	CHIP R 750K J 1/16W	
R119			RK73FB2B222J	CHIP R 2.2K J 1/8W	
R201			RK73HB1J243J	CHIP R 24K J 1/16W	
R202			RK73HB1J183J	CHIP R 18K J 1/16W	
R204,205			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R206			RK73HH1J472D	CHIP R 4.7K D 1/16W	
R207			RK73HH1J222D	CHIP R 2.2K D 1/16W	
R208			RK73HH1J153D	CHIP R 15K D 1/16W	
R209,210			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R212			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R214,215			RK73GB2A470J	CHIP R 47 J 1/10W	
R216			RK73HB1J101J	CHIP R 100 J 1/16W	
R220			RK73HH1J202D	CHIP R 2.0K D 1/16W	
R221			RK73HH1J182D	CHIP R 1.8K D 1/16W	
R222			RK73HB1J222J	CHIP R 2.2K J 1/16W	
R223,224			RK73HH1J473D	CHIP R 47K D 1/16W	
R225			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R301,302			RK73HB1J101J	CHIP R 100 J 1/16W	
R303			RK73HB1J102J	CHIP R 1.0K J 1/16W	
R306			RK73HB1J101J	CHIP R 100 J 1/16W	
R309-312			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R313,314			RK73HB1J101J	CHIP R 100 J 1/16W	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

VIDEO UNIT (X35-4960-10)

Ref. No.	Add	New	Parts No.	Description	Destination
R336			RK73HB1J105J	CHIP R 1.0M J 1/16W	
R341-343			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R344,345			RK73HB1J101J	CHIP R 100 J 1/16W	
R346			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R347-349			RK73HB1J473J	CHIP R 47K J 1/16W	
R350			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R351,352			RK73HB1J101J	CHIP R 100 J 1/16W	
R353-355			RK73HB1J473J	CHIP R 47K J 1/16W	
R356,357			RK73HB1J102D	CHIP R 1.0K D 1/16W	
R358			RK73HB1J472J	CHIP R 4.7K J 1/16W	
R366-373			RK73HB1J101J	CHIP R 100 J 1/16W	
R375			RK73HB1J820J	CHIP R 82 J 1/16W	
R376			RK73HB1J300J	CHIP R 30 J 1/16W	
R380			RK73HB1J103J	CHIP R 10K J 1/16W	
R382			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R402			RK73HB1J392J	CHIP R 3.9K J 1/16W	
R403			RK73HB1J822J	CHIP R 8.2K J 1/16W	
R404			RK73HB1J243J	CHIP R 24K J 1/16W	
R405,406			RK73GB2A620J	CHIP R 62 J 1/10W	
R441			RK73GB2A820J	CHIP R 82 J 1/10W	
R453			RK73GB2A820J	CHIP R 82 J 1/10W	
R454			RK73GB2A620J	CHIP R 62 J 1/10W	
R455-458			RK73GB2A820J	CHIP R 82 J 1/10W	
R501,502			RK73HB1J333J	CHIP R 33K J 1/16W	
R503-506			RK73GB2A100J	CHIP R 10 J 1/10W	
R507			RK73GB2A000J	CHIP R 0.0 J 1/10W	
VR200			R32-0350-05	SEMI FIXED VARIABLE RESISTOR	
S401-405			S70-0901-05	TACT SWITCH	
D1,2			UDZW5.6(B)	ZENER DIODE	
D3			1SS355	DIODE	
D4,5			DA204U	DIODE	
D6			MA2S784-F	DIODE	
D7			UDZW5.6(B)	ZENER DIODE	
D8			CVS10A120M	VARISTOR	
D9			DA204U	DIODE	
D10			1SS355	DIODE	
D11			CVS10A120M	VARISTOR	
D12			DA204U	DIODE	
D101			EP05Q04	DIODE	
D102			EP05Q06	DIODE	
D103,104			EP05Q04	DIODE	
D300			DA204U	DIODE	
D302			CVS10A120M	VARISTOR	
D307,308			DA204U	DIODE	
D401			CVS10A120M	VARISTOR	
D409-411			CVS10A180M	VARISTOR	
D501-504			CVS10A180M	VARISTOR	
D505-507			CVS10A120M	VARISTOR	
IC1			OZ964ISN-C-SN	ANALOGUE IC	
IC101			LT1947-PBF	ANALOGUE IC	
IC102			TC7WH123FU-F	MOS-IC	
IC103			74AHC1G04GW	MOS-IC	
IC200			TA75W558FU-F	ANALOGUE IC	

Ref. No.	Add	New	Parts No.	Description	Destination
IC300			S-1112B25MCG	ANALOGUE IC	
IC302		*	AT25F2048-4Z8	ROM IC	
IC304			MST7988LA-ALF	MOS-IC	
Q1			2SC4081	TRANSISTOR	
Q2,3			SI5504DC-E3	DUAL FET	
Q4			DTC114YUA	DIGITAL TRANSISTOR	
Q5			2SC4081	TRANSISTOR	
Q101			2SC4081	TRANSISTOR	
Q102			2SA1576A	TRANSISTOR	
Q200			2SC4097	TRANSISTOR	
Q202			2SA1577	TRANSISTOR	
Q203			UMZ1N	TRANSISTOR	
Q501			DTC114YE	DIGITAL TRANSISTOR	
Q502,503			PUMD10	DUAL TRANSISTOR	
DVD UNIT (X37-1100-03)					
C3			CK73HB1A104K	CHIP C 0.10UF K	
C4			CC73HCH1H471J	CHIP C 470PF J	
C5-7			CK73HB1E103K	CHIP C 0.010UF K	
C8			CC73HCH1H471J	CHIP C 470PF J	
C9			CK73HB0J105K	CHIP C 1.0UF K	
C10			CK73GB0J475K	CHIP C 4.7UF K	
C11,12			CK73HB1E103K	CHIP C 0.010UF K	
C13			CK73HB1H472K	CHIP C 4700PF K	
C14			CK73GB0J106M	CHIP C 10UF M	
C15			CK73HB1A104K	CHIP C 0.10UF K	
C16			CK73GB0J106M	CHIP C 10UF M	
C17			CK73GB0J475K	CHIP C 4.7UF K	
C18			CK73FB0J226M	CHIP C 22UF M	
C21			CK73GB0J106M	CHIP C 10UF M	
C22,23			CK73GB0J475K	CHIP C 4.7UF K	
C50			CK73HB1E103K	CHIP C 0.010UF K	
C51			CK73HB1A104K	CHIP C 0.10UF K	
C52			CK73HB1E223K	CHIP C 0.022UF K	
C53			CC73HCH1H470J	CHIP C 47PF J	
C54			CC73HCH1H102J	CHIP C 1000PF J	
C55			CC73HCH1H100D	CHIP C 10PF D	
C56			CC73HCH1H102J	CHIP C 1000PF J	
C57			CC73HCH1E681J	CHIP C 680PF J	
C58			CK73HB1H682K	CHIP C 6800PF K	
C60,61			CK73HB1A104K	CHIP C 0.10UF K	
C62			CC73HCH1H102J	CHIP C 1000PF J	
C63			CC73HCH1H331J	CHIP C 330PF J	
C64			CK73HB1H222K	CHIP C 2200PF K	
C65			CC73HCH1E681J	CHIP C 680PF J	
C66			CK73HB1H152K	CHIP C 1500PF K	
C67,68			CC73HCH1H102J	CHIP C 1000PF J	
C69-72			CC73HCH1H151J	CHIP C 150PF J	
C73-82			CK73HB1A104K	CHIP C 0.10UF K	
C83			C93-1228-05	CHIP C 1UF M	
C84			CK73HB0J105K	CHIP C 1.0UF K	
C85			CK73HB1A104K	CHIP C 0.10UF K	
C86			C93-1228-05	CHIP C 1UF M	
C90			CK73HB1E103K	CHIP C 0.010UF K	
C92			C93-1228-05	CHIP C 1UF M	
C93-95			CK73HB1A104K	CHIP C 0.10UF K	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVDRY (Europe)
K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△ Indicates safety critical components.

PARTS LIST

DVD UNIT (X37-1100-03)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
C97			CK73HB1A104K	CHIP C 0.10UF K		R28,29			R92-5147-05	CHIP R 1.2 D 1/4W	
C99			CK73HB1A104K	CHIP C 0.10UF K		R31			RK73HB1J102J	CHIP R 1.0K J 1/16W	
C100			CK73FB0J226M	CHIP C 22UF M		R50,51			RK73HB1J510J	CHIP R 51 J 1/16W	
C101			CK73GB0J475K	CHIP C 4.7UF K		R52			RK73HH1J153D	CHIP R 15K D 1/16W	
C103,104			CK73FB0J226M	CHIP C 22UF M		R53			RK73HB1J105J	CHIP R 1.0M J 1/16W	
C120,121			CK73HB1E223K	CHIP C 0.022UF K		R54			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C143,144			CC73HCH1H120J	CHIP C 12PF J		R55			RK73HB1J103J	CHIP R 10K J 1/16W	
C202			CK73FB0J226M	CHIP C 22UF M		R56			RK73HH1J472D	CHIP R 4.7K D 1/16W	
C207,208			CK73HB1A104K	CHIP C 0.10UF K		R57,58			RK73HB1J202J	CHIP R 2.0K J 1/16W	
C210			CK73HB1A104K	CHIP C 0.10UF K		R59,60			RK73HB1J103J	CHIP R 10K J 1/16W	
C212			CK73HB1A104K	CHIP C 0.10UF K		R63			RK73HB1J103J	CHIP R 10K J 1/16W	
C213			CK73HB1H332K	CHIP C 3300PF K		R64,65			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C214,215			CK73HB1A104K	CHIP C 0.10UF K		R81			RK73HB1J103J	CHIP R 10K J 1/16W	
C216			CC73HCH1H471J	CHIP C 470PF J		R83,84			RK73HB1J473J	CHIP R 47K J 1/16W	
C217			CK73HB1A104K	CHIP C 0.10UF K		R85			RK73HB1J223J	CHIP R 22K J 1/16W	
C218			CK73HB1C473K	CHIP C 0.047UF K		R86			RK73HB1J103J	CHIP R 10K J 1/16W	
C219-224			CK73HB1A104K	CHIP C 0.10UF K		R87			RK73HB1J105J	CHIP R 1.0M J 1/16W	
C225			CK73GB0J475K	CHIP C 4.7UF K		R88			RK73HB1J152J	CHIP R 1.5K J 1/16W	
C227			CK73FB0J226M	CHIP C 22UF M		R89,90			RK73HB1J123J	CHIP R 12K J 1/16W	
C434			CK73GB0J106M	CHIP C 10UF M		R91			RK73HB1J472J	CHIP R 4.7K J 1/16W	
C435			CK73HB1E103K	CHIP C 0.010UF K		R92			RK73HB1J273J	CHIP R 27K J 1/16W	
C436,437			CK73HB1A104K	CHIP C 0.10UF K		R96			RK73HB1J103J	CHIP R 10K J 1/16W	
C440-442			CK73FB0J226M	CHIP C 22UF M		R98			RK73HB1J202J	CHIP R 2.0K J 1/16W	
C444			CC73HCH1H102J	CHIP C 1000PF J		R101			RK73HH1J273D	CHIP R 27K D 1/16W	
C445			CK73HB1E103K	CHIP C 0.010UF K		R102			RK73GB2A470J	CHIP R 47 J 1/10W	
C446			CC73HCH1H101J	CHIP C 100PF J		R105			RK73HB1J103J	CHIP R 10K J 1/16W	
C447,448			CC73HCH1H102J	CHIP C 1000PF J		R113			RK73HB1J153J	CHIP R 15K J 1/16W	
C449,450			CK73HB1H472K	CHIP C 4700PF K		R120			RK73HB1J103J	CHIP R 10K J 1/16W	
C451			CC73HCH1H102J	CHIP C 1000PF J		R121			RK73HB1J820J	CHIP R 82 J 1/16W	
CN1			E41-2594-05	FLAT CABLE CONNECTOR		R122			RK73HB1J103J	CHIP R 10K J 1/16W	
CN2			E41-2603-05	FLAT CABLE CONNECTOR		R123			RK73HB1J330J	CHIP R 33 J 1/16W	
CN3			E41-2596-05	FLAT CABLE CONNECTOR		R124-126			RK73HB1J820J	CHIP R 82 J 1/16W	
L1			L92-0365-05	CHIP FERRITE		R150,151			RK73HB1J102J	CHIP R 1.0K J 1/16W	
L5			L92-0365-05	CHIP FERRITE		R152,153			RK73HB1J104J	CHIP R 100K J 1/16W	
L6			L92-0617-05	CHIP FERRITE		R154,155			RK73HB1J103J	CHIP R 10K J 1/16W	
X1			L77-2870-05	CRYSTAL RESONATOR		R158,159			RK73HB1J1R0J	CHIP R 1.0 J 1/16W	
CP2-4			RK74HB1J103J	CHIP-COM 10K J 1/16W		R160			R92-3350-05	CHIP R 2.2 F 1/10W	
CP5-9			RK74HB1J330J	CHIP-COM 33 J 1/16W		R162,163			RK73HB1J104J	CHIP R 100K J 1/16W	
CP10			RK74HB1J820J	CHIP-COM 82 J 1/16W		R164,165			RK73HH1J101D	CHIP R 100 D 1/16W	
CP11			RK74HB1J103J	CHIP-COM 10K J 1/16W		R166			RK73HB1J225J	CHIP R 2.2M J 1/16W	
R1			RK73HB1J103J	CHIP R 10K J 1/16W		R167			RK73HH1J113D	CHIP R 11K D 1/16W	
R3,4			RK73HB1J103J	CHIP R 10K J 1/16W		R168			RK73HH1J273D	CHIP R 27K D 1/16W	
R5,6			RK73HH1J123D	CHIP R 12K D 1/16W		R169			RK73HB1J125J	CHIP R 1.2M J 1/16W	
R7			RK73HH1J333D	CHIP R 33K D 1/16W		R255			R92-5112-05	CHIP R 4.7 F 1/10W	
R8,9			RK73HB1J103J	CHIP R 10K J 1/16W		R256			RK73HH1J111D	CHIP R 110 D 1/16W	
R10			RK73HB1J163J	CHIP R 16K J 1/16W		R257			RK73HH1J202D	CHIP R 2.0K D 1/16W	
R11			RK73HB1J102J	CHIP R 1.0K J 1/16W		R258,259			RK73HB1J103J	CHIP R 10K J 1/16W	
R13			RK73HB1J103J	CHIP R 10K J 1/16W		R260			RK73HH1J132D	CHIP R 1.3K D 1/16W	
R16			RK73HB1J103J	CHIP R 10K J 1/16W		R261			RK73HH1J203D	CHIP R 20K D 1/16W	
R17			RK73HB1J271J	CHIP R 270 J 1/16W		R262			RK73HB1J821J	CHIP R 820 J 1/16W	
R18			RK73HH1J270D	CHIP R 27 D 1/16W		R263			RK73HB1J242J	CHIP R 2.4K J 1/16W	
R19			RK73HB1J301J	CHIP R 300 J 1/16W		R265-268			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R21,22			RK73HH1J103D	CHIP R 10K D 1/16W		R270			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R26,27			R92-5146-05	CHIP R 1.0 D 1/4W		R271			RK73HB1J471J	CHIP R 470 J 1/16W	
						R272			RK73HH1J682D	CHIP R 6.8K D 1/16W	

E1 : KVT-522DVD E2 : KVT-522DVDY E3 : KVT-50DVIDRY (Europe)

K : KVT-512 (North America) R1 : KVT-532DVD (Latin America)

X1 : KVT-532DVD (Australia) M1 : KVT-532DVD M2 : KVT-532DVDM (Other Areas)

△Indicates safety critical components.

PARTS LIST

DVD UNIT (X37-1100-03)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R273			RK73HH1J122D	CHIP R 1.2K D 1/16W	
R274			RK73HH1J682D	CHIP R 6.8K D 1/16W	
R275			RK73HH1J122D	CHIP R 1.2K D 1/16W	
R278			R92-5112-05	CHIP R 4.7 F 1/10W	
R279			RK73HH1J102D	CHIP R 1.0K D 1/16W	
R280			RK73HB1J4R7J	CHIP R 4.7 J 1/16W	
R284			RK73HB1J000J	CHIP R 0.0 J 1/16W	
R285-287			RK73GB2A000J	CHIP R 0.0 J 1/10W	
S1			S68-0911-15	PUSH SWITCH	
S2			S68-0914-05	PUSH SWITCH	
D1			1SS402-F	DIODE	
D5,6			015AZ5.1-F(Y)	ZENER DIODE	
D8			1SS387-F	DIODE	
IC1			AN22022ABV	ANALOGUE IC	
IC3			-	ROM IC	
IC4			MN103S71F	MOS-IC	
IC5			S1000N2814T1G	ANALOGUE IC	
IC7			TA48S033AF-Q	ANALOGUE IC	
IC8			S-80812CNPF-G	ANALOGUE IC	
IC9			TA48S015AF-Q	ANALOGUE IC	
IC10			AN41250A-VB	ANALOGUE IC	
IC11			-	ROM IC	
IC12			NJU7042	ANALOGUE IC	
Q1-4			DTA143XE	TRANSISTOR	
Q5,6			2SK3019	FET	
Q12,13			2SB1709	TRANSISTOR	
Q14			SSM3J15FU-F	FET	
Q15			DTA143ZE	TRANSISTOR	
Q18			DTA143ZE	TRANSISTOR	
Q19			DTC114EE	TRANSISTOR	

DVD MECHANISM ASSY (X92-6160-00) (DVS-8020V)

1	1A		A10-5331-51	CHASSIS	
2	2B		A10-5332-51	CHASSIS	
3	1A		A10-5333-31	CHASSIS	
4	3A		A10-5460-02	CHASSIS	
7	1B		D10-4918-22	ARM	
8	1B		D10-4919-22	ARM	
9	1B		D10-4920-02	LEVER	
10	1B		D10-4921-02	LEVER	
12	2B		D10-4922-12	SLIDER	
13	2A		D10-7011-02	ARM	
14	2B		D10-4924-13	ARM	
15	2B		D10-4925-12	ARM	
25	2B		D10-4973-04	SLIDER ASSY	
27	2A		D10-4945-04	LEVER	
28	2B		D12-0639-02	CAM	
31	2B		D13-2402-04	GEAR	
32	2B		D13-2403-04	GEAR	
33	2B		D13-2404-04	GEAR	
34	2B		D13-2405-04	GEAR	
35	2B		D13-2406-04	GEAR	
36	2B		D13-2407-04	GEAR	
40	2A		D13-2413-04	GEAR	
41	2A		D13-2415-04	GEAR	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
42	2A		D13-2416-04	GEAR	
43	1B		D14-1013-14	ROLLER	
53	1B		D21-2487-24	SHAFT	
54	2A		D39-0275-05	DAMPER	
55	2A		D39-0276-05	DAMPER	
60	3A		F09-2825-23	SHEET	
65	2B		G01-3298-04	EXTENSION SPRING	
66	1B		G01-3299-04	EXTENSION SPRING	
67	2A		G01-3300-14	TORSION COIL SPRING	
68	2B		G01-4601-04	EXTENSION SPRING	
69	1B		G01-4602-04	EXTENSION SPRING	
70	1B		G01-4604-04	TORSION COIL SPRING	
74	2B		G01-4609-14	TORSION COIL SPRING	
75	1B		G02-1564-03	FLAT SPRING	
79	2A		J22-0475-21	MOUNTING HARDWARE	
80	3B		J22-0636-01	MOUNTING HARDWARE	
A	1A		N09-6382-05	MACHINE SCREW (M1.7X2.0)	
B	3B		N09-6408-15	TAPTITE SCREW (1.7X4 P-TITE)	
C	1B		N09-6426-15	MACHINE SCREW (LOAD ARM SCREW)	
D	3A		N09-6104-05	MACHINE SCREW (2X10 S-TITE)	
93	2A		T99-0471-05	MAGNET	
96	1B		X94-2080-00	ROLLER ASSY	
98	2A		X94-2060-00	TRAVERSE ASSY (PICKUP,SPINDLE)	
VM1	2A		X94-2070-00	MOTOR ASSY (LOADING)	

E1 : KVT-522DVD **E2** : KVT-522DVDY **E3** : KVT-50DVDRY (Europe)
K : KVT-512 (North America) **R1** : KVT-532DVD (Latin America)
X1 : KVT-532DVD (Australia) **M1** : KVT-532DVD **M2** : KVT-532DVDM (Other Areas)

The IC3, and IC11 in the DVD unit (X37-1100-03) are not replaceable components. When these ICs are defective, replace the whole DVD mechanism assembly (X92-6160-00).

SPECIFICATIONS (K,R TYPE)

Monitor section

Picture Size	6.97 inches (diagonal) wide
.....	154.08 mm (W) x 86.58 mm (H)
Display Sytem	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels	336,960 (480H x 234V x RGB)
Effective Pixels	99.99 %
Pixel Arrangement	RGB striped arrangement
Back Lighting	Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....	24 bit
Audio Decoder	
.....	Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2
Wow & Flutter	Below Measurable Limit
Frequency Response	
Sampling frequency; 96 kHz.....	20 – 44,000 Hz
Sampling frequency; 48 kHz.....	20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	20 – 20,000 Hz
Total Harmonic Distortion.....	0.010 % (1 kHz)
S/N Ratio (dB).....	98 dB (DVD-Video 96 kHz)
Dynamic Range	98 dB (DVD-Video 96 kHz)
Disc Format	DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency	44.1/ 48/ 96 kHz
Quantifying Bit Number.....	16/ 20/ 24 bit

USB interface section

USB Standard	USB 1.1/ 2.0
File Sytem.....	FAT 16/ 32
Maximum Power Supply Current	500 mA
D/A Converter.....	24 Bit
Audio Decoder	MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2

FM tuner section

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

AM tuner section

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

Video section

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

Audio section

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

General

Operating voltage.....	14.4 V (11 – 16 V allowable)
Maximum Current Consumption.....	15 A
Dimensions (W x H x D)	182 x 53 x 160 mm
.....	7-3/16 x 2-1/16 x 6-5/16 inch
Operational Temperature Range	-10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight	2.3 kg (5.1 lbs)

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

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

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SPECIFICATIONS (M,X TYPE)

Monitor section

Picture Size	6.97 inches (diagonal) wide
.....	154.08 mm (W) x 86.58 mm (H)
Display Sytem	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels.....	336,960 (480H x 234V x RGB)
Effective Pixels	99.99 %
Pixel Arrangement	RGB striped arrangement
Back Lighting	Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....	24 bit
Audio Decoder	
.....	Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)
Wow & Flutter	Below Measurable Limit
Frequency Response	
Sampling frequency; 96 kHz.....	20 – 44,000 Hz
Sampling frequency; 48 kHz.....	20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	20 – 20,000 Hz
Total Harmonic Distortion.....	0.010 % (1 kHz)
S/N Ratio (dB).....	98 dB (DVD-Video 96 kHz)
Dynamic Range	98 dB (DVD-Video 96 kHz)
Disc Format	DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency	44.1/ 48/ 96 kHz
Quantifying Bit Number.....	16/ 20/ 24 bit

USB interface section

USB Standard	USB 1.1/ 2.0
File Sytem.....	FAT 16/ 32
Maximum Power Supply Current	500 mA
D/A Converter.....	24 Bit
Audio Decoder	MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)

FM tuner section

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

AM tuner section (Type X)

Frequency Range	531 kHz – 1611 kHz (9 kHz)
.....	530 kHz – 1700 kHz (10 kHz)

Usable Sensitivity	28 dB μ
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LW tuner section (Type M/Type M2)

Frequency Range (9 kHz)	153 kHz – 281 kHz
Usable Sensitivity	45 μ V

MW tuner section (Type M/Type M2)

Frequency Range	531 kHz – 1611 kHz (9 kHz)
.....	530 kHz – 1700 kHz (10 kHz)
Usable Sensitivity	25 μ V

Video section

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

Audio section

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

General

Operating voltage.....	14.4 V (11 – 16 V allowable)
Maximum Current Consumption.....	15 A
Dimensions (W x H x D).....	182 x 53 x 160 mm
Operational Temperature Range	-10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight	2.3 kg

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Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

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SPECIFICATIONS (E TYPE)

Monitor section

Picture Size	6.97 inches (diagonal) wide
.....	154.08 mm (W) x 86.58 mm (H)
Display System	Transparent TN LCD panel
Drive System	TFT active matrix system
Number of Pixels	336,960 (480H x 234V x RGB)
Effective Pixels	99.99 %
Pixel Arrangement	RGB striped arrangement
Back Lighting	Cold Cathode Fluorescent Tube

DVD player section

D/A Converter.....	24 bit
Audio Decoder	
.....	Linear PCM/ Dolby Digital/ dts/ MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)
Wow & Flutter	Below Measurable Limit
Frequency Response	
Sampling frequency; 96 kHz.....	20 – 44,000 Hz
Sampling frequency; 48 kHz.....	20 – 22,000 Hz
Sampling frequency; 44.1 kHz.....	20 – 20,000 Hz
Total Harmonic Distortion.....	0.010 % (1 kHz)
S/N Ratio (dB).....	98 dB (DVD-Video 96 kHz)
Dynamic Range	98 dB (DVD-Video 96 kHz)
Disc Format	DVD-Video/ VIDEO-CD/ CD-DA
Sampling Frequency	44.1/ 48/ 96 kHz
Quantifying Bit Number.....	16/ 20/ 24 bit

USB interface section

USB Standard	USB 1.1/ 2.0
File System.....	FAT 16/ 32
Maximum Power Supply Current	500 mA
D/A Converter.....	24 Bit
Audio Decoder	MP3/ WMA/ AAC
Video Decoder.....	MPEG1/ MPEG2/ MPEG4 (DivX)

FM tuner section

Frequency Range (50 kHz)	87.5 MHz – 108.0 MHz
Usable Sensitivity (S/N : 26 dB)	0.7 μ V/ 75 Ω
Quieting Sensitivity (S/N : 46 dB)	1.6 μ V/ 75 Ω
Frequency Response (\pm 3.0 dB).....	30 Hz – 15 kHz
S/N Ratio (dB).....	65 dB (MONO)

Selectivity (\pm 400 kHz)	\geq 80 dB
Stereo Separation.....	35 dB (1 kHz)

LW tuner section

Frequency Range (9 kHz)	153 kHz – 281 kHz
Usable Sensitivity	45 μ V

MW tuner section

Frequency Range (9 kHz)	531 kHz – 1611 kHz
Usable Sensitivity	25 μ V

Video section

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

Audio section

Maximum Power (Front & Rear)	50 W x 4
Full Bandwidth Power (Front & Rear)	
(PWR DIN 45324, +B=14.4V).....	30 W x 4
Preout Level (V)	2 V/ 10 k Ω
Preout Impedance	\leq 600 Ω
Speaker Impedance	4 – 8 Ω
Tone action	
Bass	100 Hz \pm 8 dB
Middle	1 kHz \pm 8 dB
Treble	10 kHz \pm 8 dB

General

Operating voltage.....	14.4 V (11 – 16 V allowable)
Maximum Current Consumption.....	15 A
Dimensions (W x H x D).....	182 x 53 x 160 mm
Operational Temperature Range	-10 $^{\circ}$ C – +60 $^{\circ}$ C
Storage Temperature Range	-20 $^{\circ}$ C – +85 $^{\circ}$ C
Weight	2.3 kg

DANGER:

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

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

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

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