DIGITAL MEDIA RECEIVER

KIV-700
KIV-BT900

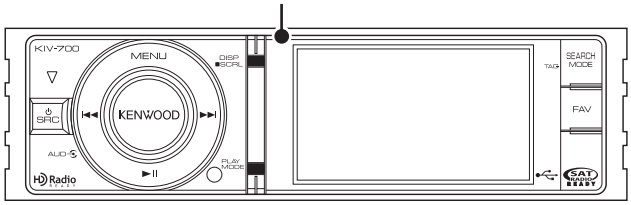
SERVICE MANUAL

KENWOOD

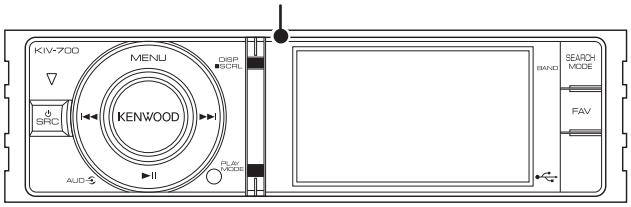
Kenwood Corporation

B53-0805-00 (N) 306

Panel assy
KIV-700 (K) (A64-5140-01)



Panel assy
KIV-700 (M) (A64-5142-01)



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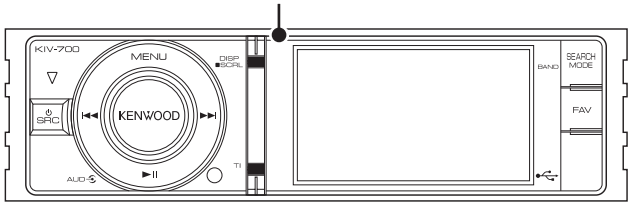
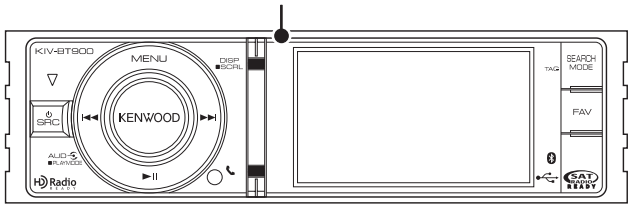
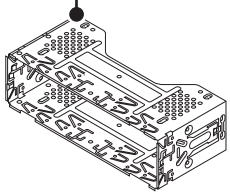
KIV-700 (E) (A64-5141-01)



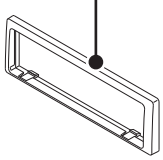
Panel assy
KIV-BT900 (K) (A64-5139-01)



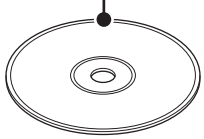
Mounting hardware assy
(J22-0789-03)



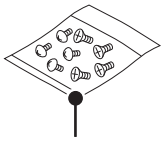
Escutcheon
(B07-3245-01)



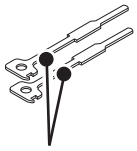
* Compact disc
(W01-1780-05)



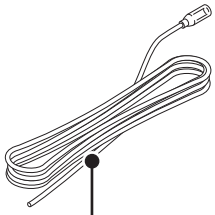
* Remote controller assy (RC-405)
(A70-2104-05)



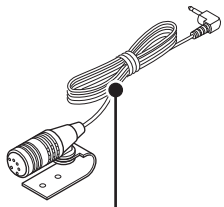
* Screw set
(N99-1757-15)



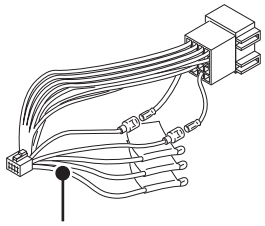
Lever
(D10-7106-04) x2



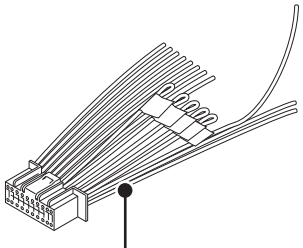
Connecting cord assy
(E30-6920-05)



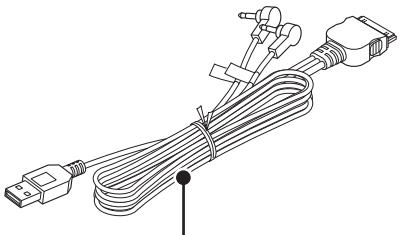
* Microphone
(W01-1768-05)



* DC cord
(E30-6940-05)



* DC cord
(E30-6939-05)



Cord with connector
(E30-6958-05)

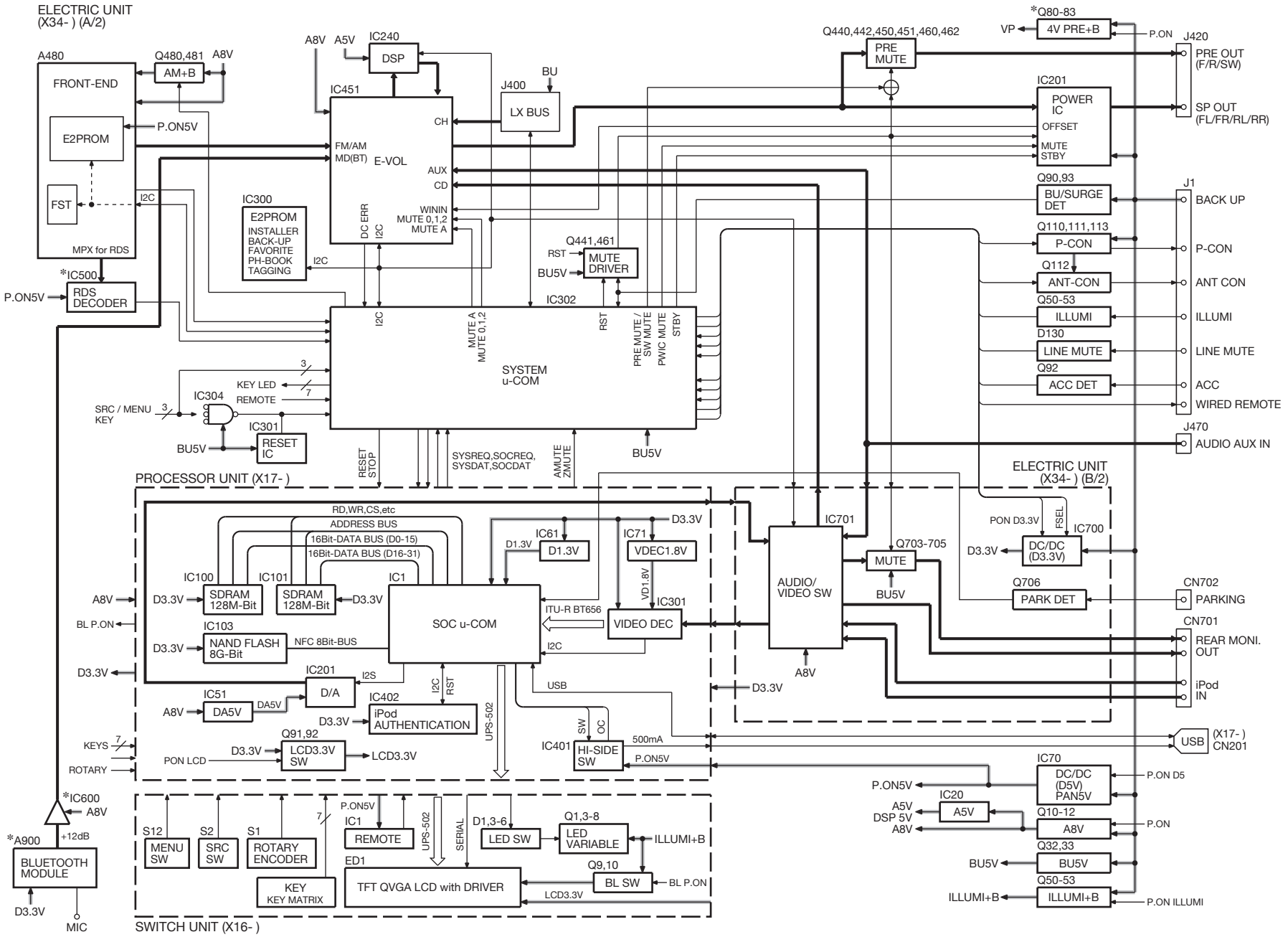
* Depends on the model. Refer to the parts list.

This product uses Lead Free solder.

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

KIV-700/BT900

BLOCK DIAGRAM



COMPONENTS DESCRIPTION

● SWITCH UNIT (X16-6880-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Remote Controller	Outputs remote control signal when IR signal is received.
Q1	Triangle RED Driver	When the base turns on, D1 is turned on.
Q3	BLUE Driver	When the base turns on, BLUE of D3, D4 and D5 are turned on. Brightness is PWM controlled by X34-unit.
Q4	RED Driver	When the base turns on, RED of D3, D4, D5 are turned on. Brightness is PWM controlled by X34-unit.
Q5	GREEN Driver	When the base turns on, GREEN of D3, D4, D5 are turned on. Brightness is PWM controlled by X34-unit.
Q6	BLUE Driver	When the base turns on, BLUE of D6 is turned on. Brightness is PWM controlled by X34-unit.
Q7	RED Driver	When the base turns on, RED of D6 is turned on. Brightness is PWM controlled by X34-unit.
Q8	GREEN Driver	When the base turns on, GREEN of D6 is turned on. Brightness is PWM controlled by X34-unit.
Q9,10	LCD Back Light Control SW	When the base turns on, back light of LCD is turned on. Brightness is PWM controlled by X17-unit.

● PROCESSOR UNIT (X17-2080-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	SOC µ-COM	Controls LCD, key, USB and video.
IC51	A5V Power Supply	Power supply for A5V (to DAC).
IC61	Power Supply for IC1	Power supply for IC1 core.
IC71	Power supply for IC301	Power supply for IC301 core.
IC100,101	Memory for IC1	Memory for IC1.
IC103	Firmware Memory for IC1	Firmware memory for IC1 and music file (8G-bit).
IC201	Audio DAC	The file in USB and internal memory are converted to analog.
IC301	Video DAC	Composite-video signal (analogue) is converted to “BT.656” format (digital).
IC401	Hi-side SW	Detects USB over-current and ON/OFF SW.
IC402	i-Pod Authentication	Connection with i-Pod and i-Phone are authorized.
Q91,92	LCD Power SW	When Q92’s base goes on, LCD_D3.3V outputs 3.3V.
Q501	Level shift (5V→3.3V)	SOC_STOP level shift.
Q502	Level shift (5V→3.3V)	SOC_RST level shift.

● ELECTRIC UNIT (X34-677x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC10	AUD8V REF Power Supply	Outputs 1.27V.
IC20	A5V REG	Power supply for A5V (to DSP).
IC70	D5V/PON5V SW REG	Power supply for D5V (to USB-VBUS/PANEL) and PON5V.
IC170	Level Shift (3.3V→5V)	Level shift for BT module.
IC171	Level Shift (5V→3.3V)	Level shift for BT module.
IC201	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC240	DSP	Digital signal processor.
IC300	E2PROM	Memory for data of installer, back-up, favorite, phone book and RBDS tagging.
IC301	Reset IC	Outputs Lo (system µ-com reset) when detection voltage goes below 3.6V.
IC302	System µ-COM	Controls FM/AM tuner, the changer, X17-unit, key (SRC/MENU/AUDIO) and DSP.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC303	Mute Logic	Controls logic for muting.
IC304	Reset Logic	Logic for reset (SRC/MENU/AUDIO).
IC451	E-VOL & Source Selector	Controls the source and volume.
IC500	RDS Decoder	RDBS and RDS decoder.
IC551	Level Shift (5V→3.3V)	Level shift for X17-unit. (Controls IC302)
IC552	Level Shift (3.3V→5V)	Level shift for X17-unit. (Controls IC302)
IC600	BT Buffer	Buffer for Bluetooth.
IC700	D3.3V Power Supply	Power supply for D3.3V to X17-unit (USB/PANEL) and BT module.
IC701	AV Selector	Audio (USB/i-Pod) and video (i-Pod) input selector and rear monitor output buffer.
Q10~12	AUD8V AVR	When Q11's base goes on, A8V AVR outputs 8.0V.
Q32,33	BU5V AVR	While the back-up is applied, BU5V AVR outputs +5V.
Q50~53	ILLUMI+B	When Q53's base goes on, AVR outputs 10.5V.
Q80~83	4V-PRE+B	When Q83's base goes on, 4V-PRE+B outputs (~12V).
Q90	BU DET SW	When the base goes on, the back-up voltage is detected.
Q92	ACC DET SW	When the base goes on, ACC voltage is detected.
Q93	Surge DET SW	When the base goes on, surge voltage is detected.
Q110,111	P-CON Output SW	When Q110's base goes on, 14V is output.
Q112	P-CON & ANT-CON Current Limiter	The circuit is protected because Q112 operates when P-CON output current is excessive.
Q113	P-CON Output SW	When Q110's base goes on, 14V is output.
Q114,115	ANT-CON (Power Antenna) SW	When Q115's base goes on, power antenna SW outputs 14V. *Necessary to turn on P-CON.
Q130	Car Light DET SW	When the base goes on, car light is detected.
Q170	Bluetooth Module Reset	When the base goes on, BT module reset is ON.
Q366	Level Shift	Level shift for USB audio mute.
Q440,442,450 Q451,460,462	Pre-out Mute SW	When the base goes on, pre-out is muted.
Q441,461	Pre-out Mute Driver	When the base goes on, mute driver is turned on.
Q480,481	AM+B SW	When Q480's base goes on, AM+B is output.
Q602	IC302 Reset Control	When the base goes on, IC302 is reset.
Q702	Control OSC FREQ of IC700	When the base goes on, oscillation frequency is high.
Q703	Rear-Monitor-Out (Audio) Mute Driver	When the base goes on, rear-monitor-out (audio) mute SW turns on.
Q704,705	Rear-Monitor-Out (Audio) Mute SW	When the base goes on, rear-monitor-out (audio) is muted.
Q706	Parking Brake DET SW	When the parking brake is detected, the base goes on.

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM µ-COM: IC302 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
1	WIRED PANEL REMO	I	Remote control signal input		Pulse width detection
2	RDS QUAL	I	RDS decoder qualification input		
3~5	NC	-	Not used		Output L fixed
6	BYTE	-			
7	CNVSS	-			
8	XCIN	-			32.768kHz
9	XCOUT	-			32.768kHz
10	$\overline{\text{RESET}}$	-			L: Reset
11	XOUT	-			12MHz
12	VSS	-			
13	XIN	-			12MHz
14	VCC1	-			
15	NC	-	Not used		Output L fixed
16	RDS CLK	I	RDS clock input		
17	$\overline{\text{AMUTE}}$	O	Rear monitor-out audio (Mute control)		Momentary power-down: L, L: Mute ON
18	BU DET	I	Back-up detection		BU found: L, No BU or momentary power-down or over-voltage: H
19	RDS DATA	I	RDS decoder data input		
20	NC	-	Not used		Output L fixed
21	$\overline{\text{SRC KEY}}$	I	Source key input		H: OFF, L: ON
22	$\overline{\text{MENU KEY}}$	I	Menu key input		H: OFF, L: ON
23	$\overline{\text{KENWOOD KEY}}$	I	KENWOOD key (Rotary push) input		H: OFF, L: ON
24,25	NC	-	Not used		Output L fixed
26	PWIC BEEP	O	Beep output		2kHz/1kHz
27	TUN SCL	I/O	Front-end I2C clock input/output		MAX 400kHz
28	TUN SDA	I/O	Front-end I2C data input/output		MAX 400kHz
29	SOC SYS DATA	O	Data from system µ-com to SOC		UART MAX 500kHz
30	SOC SOC DATA	I	Data from SOC to system µ-com		UART MAX 500kHz
31	SOC SYS REQ	O	Communication request from system µ-com to SOC		H: Request, L: Normal
32	SOC SOC REQ	I	Communication request from SOC to system µ-com		H: Request, L: Normal
33	BT SYS DATA	O	Data from system µ-com to BT module		
34	BT BT DATA	I	Data from BT module to system µ-com		
35	BT RST	O	BT module reset		L: Normal, H: BT reset
36	FSEL 5V	O	Changes SW5 oscillation frequency	①	Refer to the truth value table
37	FSEL 3.3V	O	Changes SW3.3V oscillation frequency	①	Refer to the truth value table
38	NC	-	Not used		Output L fixed
39	ROMCOR DET	I	ROM correction writing request		H: Rewritable (I2C opened)
39	EPM	I	EPM input during writing Rewritable in Lo at the start-up		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
40	SOC RST	O	SOC reset		H: Reset, L: Normal
41	SOC STOP	O	SOC stop		H: SOC stopped, L: Normal
42,43	NC	O	Not used		Output L fixed
44	CE	I	"Not used" except during writing		Output fixed
45	TYPE 2	I	Destination setting		
46	TYPE 1	I	Destination setting		
47	TYPE 0	I	Destination setting		
48	$\overline{\text{ZERO MUTE}}$	I	ZERO mute detection		L: ZERO mute ON
49	PON ILL	I/O	Panel LED power supply control		H: ON, Hi-Z: OFF (During POWER OFF)
50	PON 3.3V	I/O	SOC power supply 3.3V control		H: ON, Hi-Z: OFF
51	NC	-	Not used		Output L fixed
52	PON	I/O	Power supply control		H: ON, Hi-Z: OFF
53~55	NC	-	Not used		Output L fixed
56	P-CON	I/O	P-CON control		POWER ON: H, POWER OFF: Hi-Z, STANDBY source: Hi-Z
57	ANT CON	I/O	ANT-CON control		TUNER source: H, Others: Hi-Z
58	ACC DET	I	ACC detection		ACC found: L, No ACC: H
59	$\overline{\text{ILLUMI DET}}$	I	Dimmer illumination detection		L: ON, H: OFF
60	VCC2	-			
61	NC	-	Not used		Output L fixed
62	VSS	-			
63	LINE MUTE	I	Line mute detection		KIV-700 TEL mute: Below 1V, NAVI mute: Over 2.5V KIV-BT900 NAVI mute: Over 2.5V
64	$\overline{\text{DSP PDN}}$	O	DSP reset		H: Normal, L: Reset
65	$\overline{\text{PON 4VPRE}}$	I/O	4V-PRE power supply control		H: ON, Hi-Z: OFF
66	$\overline{\text{MUTE 0}}$	O	E-VOL front mute control		L: Mute ON, H: Normal (Time constant isolation setting: 10ms)
67	$\overline{\text{MUTE 1}}$	O	E-VOL rear mute control		L: Mute ON, H: Normal (Time constant isolation setting: 10ms)
68	$\overline{\text{MUTE 2}}$	O	E-VOL switching mute control		L: Mute ON, H: Normal (Time constant isolation setting: 10ms)
69	PWIC DC DET	I	DC offset detection		
70	$\overline{\text{MUTE AFS}}$	I/O	IC-2 mute control (AFS mute)		L: Mute ON, Hi-Z: Normal (Time constant isolation setting: 0.48ms)
71	$\overline{\text{PWIC MUTE}}$	O	Power IC mute		STANDBY source or momentary power-down: L, TEL mute: L
72	$\overline{\text{PWIC STBY}}$	O	Power IC standby		POWER ON: H, POWER OFF: L
73	LX REQ S	I	Communication request from slave unit		
74	LX REQ M	O	Communication request to slave unit		
75	SDA DSP SDA	I/O	I2C data for DSP		
75	SDA E2P SDA	I/O	I2C data for the mother E2PROM		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
75	SDA EVOL SDA	I/O	Data output from system u-com to E-VOL		
76	SCL DSP SCL	I/O	I2C clock for DSP		
76	SCL E2P SCL	I/O	I2C clock for the mother E2PROM		
76	SCL EVOL SCL	I/O	Clock output from system µ-com to E-VOL		
77	LX MUTE	I	Mute request from slave unit		H: Mute ON, L: Mute OFF
78	LX CON	O	Start-up request to salve unit		H: Slave unit ON, L: Slave unit OFF
79	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal
80	$\overline{\text{MUTE PRE}}$	O	External preout mute		0-bit or momentary power-down: L, L: Mute ON
81	$\overline{\text{MUTE PRE SW}}$	O	External preout mute (SUB)		0-bit or momentary power-down: L, L: Mute ON
82	PON AM	I/O	AM+B power supply control		H: AM station found, Hi-Z: Others
83	TUN IFC OUT	I	Front-end IFC-OUT input		H: Station found, L: No station
84	TUN SMETER	I	S-meter voltage detection		
85	RDS NOISE	I	FM noise voltage detection		
86	$\overline{\text{RDS AFS M}}$	I/O	Noise detection time constant SW		L: AF search, Hi-Z: Normal
87	NC	-	Not used		Output L fixed
88	TRIANGLE ILL	O	Triangle LED control		H: Turned ON, L: Turned OFF
89	VARI1 B	O	Panel scroll bar variable BLUE		PWM control (100Hz)
90	VARI1 G	O	Panel scroll bar variable GREEN		PWM control (100Hz)
91	VARI1 R	O	Panel scroll bar variable RED		PWM control (100Hz)
92	VARI0 B	O	Panel L & R key variable BLUE		PWM control (100Hz)
93	VARI0 G	O	Panel L & R key variable GREEN		PWM control (100Hz)
94	AVSS	-			
95	VARI0 R	O	Panel L & R key variable RED		PWM control (100Hz)
96	VREF	-			
97	AVCC	-			
98	LX DATA S	I	Data from slave unit		
99	LX DATA M	O	Data to slave unit		
100	LX CLK	I/O	LX-BUS clock		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Truth value table

① FSEL terminal switch (AM)

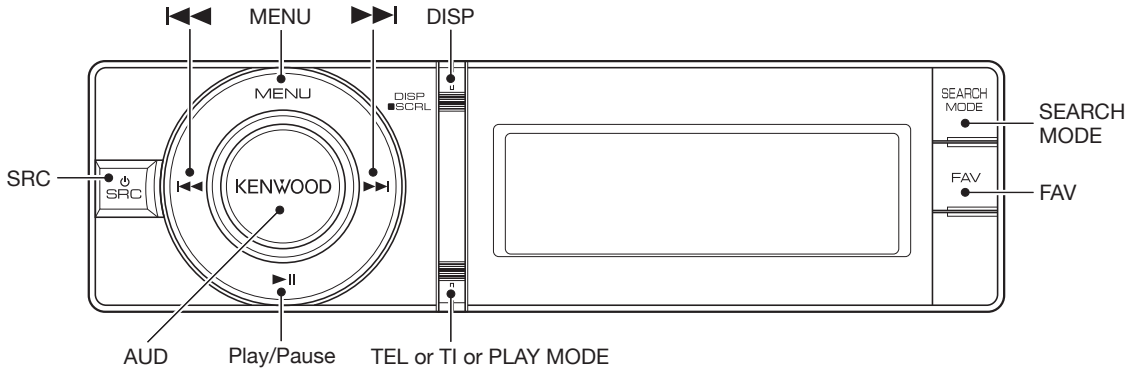
[FSEL_5V] Pin36			
μ-com terminal	H	L	
Reception frequency (Destination "K")	1110kHz~1700kHz	530kHz~1100kHz	
	1107kHz~1611kHz	531kHz~1098kHz	Channel space switching
Reception frequency (Destination "M" & "E")	1107kHz~1611kHz	531kHz~1098kHz	
	1110kHz~1700kHz	530kHz~1100kHz	Channel space switching
Reception frequency (Destination "J")	1107kHz~1629kHz	522kHz~1098kHz	

[FSEL_3.3V] Pin37			
μ-com terminal	H	L	
Reception frequency (Destination "K")	530kHz~1100kHz 1610kHz~1700kHz	1110kHz~1600kHz	
	531kHz~1098kHz	1107kHz~1611kHz	Channel space switching
Reception frequency (Destination "M" & "E")	531kHz~1098kHz	1107kHz~1611kHz	
	530kHz~1100kHz 1610kHz~1700kHz	1110kHz~1600kHz	Channel space switching
Reception frequency (Destination "J")	522kHz~1098kHz	1107kHz~1629kHz	

TEST MODE

■ Key layout

∗ The product can be reset by simultaneously pressing the following three keys: [MENU], [AUD] and [SRC].



■ How to transfer into the test mode

Press and hold the [TEL] or [TI] or [PLAY MODE] and [FAV] keys and reset.

∗ Reset can be made also by turning on the head unit power supply.

■ How to clear the test mode

It is required to clear the test mode under any of the following conditions:

- Reset
- Momentary power down detection
- ACC OFF operation
- Panel detach operation

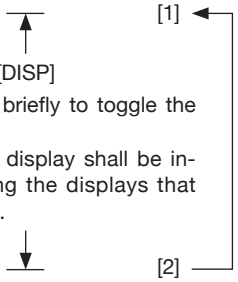
■ Initial setting

- The source when making the transfer shall be STANDBY source.
- All the TFT LCD turns on when it is white.
- VOLUME setting shall be 30.
- CRSC setting shall be ON. (Do not set up to ON/OFF switching.)
- KEY ON BEEP setting shall be ON regardless of destination of the product.
- Build-in AUX shall be ON.
- DSP shall be BYPASS setting (DSP OFF).
- DISPLAY setting shall be Type-A1. (This is the same as the initial setting for the normal mode)
- DISPLAY TEXT setting in TUNER source shall be as follows:
  K/M type 1st row: Frequency
  E type 1st row: PS/Frequency
- SOURCE SELECT setting shall be mode 2 (Mode in which the source is switched every time when [SRC] key is pressed briefly).
- The illumination settings shall be R255, G255, and B255 (white).
- AV OUT setting shall be ON.

TEST MODE

■ Information display while all the lights are turned on

The following information shall be displayed when the key listed in the next table is pressed while all the lights are turned on in STANDBY source.

[DISP] ∗ Press this key briefly or [1]~[2] (Remote controller)	Press this key briefly: To transfer to Software version & various service information display mode. When [DISP] key is pressed briefly, the following items are displayed alternately (toggled) as shown hereunder. ∗ When [DISP] key is pressed briefly, the display is switched successively in the following sequence: "Version display" → "POWER ON time display" → "All lights ON display" → "Version display". ∗ Remote controller [1]~[2] key When the key is pressed briefly, the display can be switched directly to the item for that key. • Item System μ-com software version, SoC μ-com software version, Destination setting, ROM correction version, and Serial No. displays ↓ POWER ON time display ∗ Refer to "Attached table 1" for details.  Press this key briefly to toggle the display item ∗ All lights ON display shall be included among the displays that are displayed.
[MENU] ∗ Press this key briefly	Press this key briefly: To call MENU LIST (Same operation as normal operation (i.e., operation defined in the product specification))
[⏭] ∗ Press this key briefly	Press this key briefly: To initialize AUDIO data • Image of display A U D I O _ I N I T
[⏮]	Press this key briefly: To display Forced POWER OFF information Press and hold this key: To clear Forced POWER OFF information. (Press this key and hold it for 2 seconds while Forced POWER OFF information is displayed.) • Image of display P O F F _ – – – S E C P N L (No Forced POWER OFF) (Forced POWER OFF because Security Code is not yet written) (Forced POWER OFF because of communication error between system μ-com and panel)
[FAV] ∗ Press this key briefly	Press this key briefly: To display iPod authentication IC installation condition. • Image of display i P o d _ O K _ N G (Installation condition OK) (Installation condition NG)
[SEARCH MODE] ∗ Press this key briefly	Press this key briefly: To change illumination color • Variable illumination model The color is switched in the next sequence: White (R255/G255/B255) → Red (R255/G0/B0) → Green (R0/G255/B0) → Blue (R0/G0/B255) → …

TEST MODE

Attached table 1: Version & service information display mode

[Rotary] (Counter clockwise) ↑ ↓ [Rotary] (Clockwise) or [DISP] ∗ Press this key briefly to switch the display	[1] (Remote controller)	Software version & serial number display • Description System µ-com software version, SoC µ-com software version, Serial No., Destination setting, ROM correction version are displayed. The BT related version is also displayed as the model with the built-in BT (KIV-BT900). • Software version display The following numbers are added at the head of the system µ-com version number and the number with this added number is displayed. · System µ-com Built-in BT (KIV-BT900) : 01 Ex. SYS01_∗.∗∗ Without built-in BT (KIV-700) : 02 Ex. SYS02_∗.∗∗ · SoC µ-com For all destinations Ex. SoC___∗.∗∗ • System µ-com ROM correction version display · Display specification When ROM correction data is written in: SYS_ROM_R1234 When ROM correction data is not yet written in: SYS_ROM_R_ _ _ _ When inconsistency is found in ROM correction data: SYS_ROM_R∗∗∗∗ ∗ When the data cannot be applicable (cannot be used) because the source code and ROM correction data are inconsistent. · Image of display Ex. In the case of the model with the built-in BT (KIV-BT900) SYS01– 1.23 SoC –81.34 SNo_xxxxxxxx C0955WK STYPE:xx SYS_ROM_R1234 Ex. In the case of the model without the built-in BT (KIV-700) SYS02– 1.23 SoC –81.34 SNo_xxxxxxxx C0948Wx STYPE:xx SYS_ROM_R1234 ↓ ↑ Remote controller [1] key or [⏮]/[⏭] can be used to switch • Display of BT related version information (KIV-BT900) · Layout of display 1st line : BT module H/W & S/W Version 2nd line : BT module Device Address 3rd line : BT module PIN Code · Image of display BT_VER:HWxxx_SWxxx ADDR :xxxxxxxxxxxx PIN :xxxxxxxx

TEST MODE

	[2] (Remote controller)	• POWER ON time display
		· Image of display
		`PonTim_0Hxx_`
		`xxxxx`
		(In the "xx", the figure between 00 and 50 (00~50) shall be displayed. When it is less than 1 hour, it shall be displayed rounded up/down to 10 minutes.)
		When the unit is normally turned on even only 1 time, the value "0H10" is memorized.
		(In the "xxxxxx", the figure between 00001 and 10922 (00001~10922) shall be displayed. The figure is shown in h [hour])

[AUD]		When this key is pressed briefly: Invalid (It does not cause any operation.) When this key is pressed and held: It is to clear the service information being displayed (Press and hold this key for 2 seconds while the service information is being displayed)
[MENU]		When this key is pressed briefly: Version & service information display mode is turned OFF (Recover)

◇ Initialization of settings related to AUDIO setup

- When [⏭] key is pressed briefly in STANDBY source, AUDIO setting values are reset to their default values in the test mode.

◇ SoC forced update method

- In the Test mode, F/W in the SoC μ-com is automatically updated.
  As a condition, this automatic update is carried out if the file, "player_nand_fup.rom" exists under the root of the USB device.
  Step 1: Insert USB.
  Step 2: The display should change to "Updating".
  Step 3: The display, "Complete", is displayed to show the completion of the update.
  Note: Do not remove the USB while "Updating" is being displayed.

◇ Others

- Do not display "CODE_NG", "CODE_OFF" or "CODE_ON" when power is on (POWER ON).
- In turning on this unit in the test mode, change LINE MUTE inhibit period of time from 10sec to 1sec.
- In the Test mode, even if the DC offset error is detected, the detection information shall not be written in E2PROM or Data Flash ROM.
- In the Test mode, even if the prescribed period of time elapses, the backup memory items are not written in E2PROM or Data Flash ROM.
- Do not run DEMO mode in the following mode: Test mode, Backup/Installer memory & CD mechanism information & service information & DC offset error detection information & BT memory information clear mode, or DC offset error detection information clear mode.
  Also, in the above mode, do not display DEMO ON/OFF switching items in the Menu list.

■ TUNER source test mode

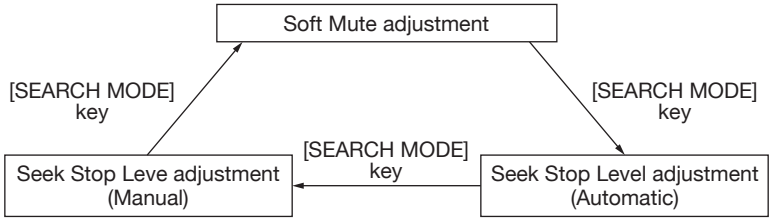
- Only in the test mode, display the items for "1"~"6" under the Menu list layers that can be entered by pressing [MENU] key so that these items are selectable. (Test 1 through Test 6 shall be displayed. ＊ In FM of RDS (RBDS) model, the "Test 6" becomes "K3I ＊＊＊".)
  1. Press [MENU] key briefly to display the Menu list.
  2. Use [Rotary] to select (focus at) one of "Test 1" through "Test 6".
  3. Press [AUD] key briefly to enter the above selection. Also, it shall be possible with the keys, [1] through [6] on the remote controller to make the same selection as above.
- Switch frequency to 97.9MHz by pressing [3] key briefly in FM band.

TEST MODE

- Only in E type, switch frequency to LW-216kHz by pressing [2] key or [FAV] key briefly in TUNER AM band.
- In the model for all destinations, switch Band by pressing [SEARCH MODE] key briefly in TUNER source.
  FM1 → FM2 → (FM3) → AM → (AM2) → FM1…
  ∗ Except for the model KIV-BT900, the above sequence of changes is the same as the sequence in the normal mode.

◇ TUNER setting adjustment mode operation procedure

1. Select Band by pressing [SEARCH MODE] key briefly.
2. Transfer to TUNER setting mode by pressing and holding [⏯] key for 2 seconds. At the same time, set up FM receive frequency to 97.9MHz.
3. Switch the adjustment mode with [SEARCH MODE] key.



(Note)
The adjustment shall be started with Soft Mute adjustment.
However, since no Soft Mute adjustment is required in AM band, the adjustment shall be started with Seek Stop Level adjustment (Automatic).

4. Use the following adjustment method for every adjustment item.

Soft mute adjustment mode

- Image of display

SMD–x _ _ _

(In the “x”, the adjustment value, 0~F (07FST), 0~7 (08FST) is displayed.)

- Operation procedure

1) Press key, [⏮] or [⏭] to adjust the value between 0 (18dBμ) through F (07FST) and 7 (08FST) (You can keep pressing the key to adjust the value).
2) After setting up the adjustment value, press and hold [AUD] key for 2 seconds to write the value in E2PROM. After the successful completion of writing the value in E2PROM, “EP_WRITE” shall be displayed.

- Restrictions

This function is operational only in TUNER FM.
Make adjustment by setting 30 in the VOLUME setting and by setting OFF in the Audio related adjustment value.

Seek stop level automatic adjustment mode

- Image of display

ATN_4.32V	(In the case of Normal [Local OFF])
ATL_3.45V	(In the case of Local [Local ON])

The present reception level is displayed.

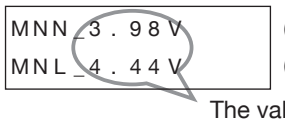
- Operation procedure

1) In the band in which Local Seek ON/OFF switching is allowed, press [TEL] or [TI] or [PLAY MODE] key briefly to switch on or off the Local Seek (Local Seek ON/OFF).
2) Press and hold [AUD] key for 2 seconds to write the present reception level in E2PROM as the seek stop level. After the successful completion of writing the level in E2PROM, “EP_WRITE” shall be displayed.
   ∗ At time moment, use Local Seek ON/OFF to change where to write in the level (Destination of the writing-in).

TEST MODE

Seek stop level manual adjustment mode

• Image of display



(In the case of Normal [Local OFF])
(In the case of Local [Local ON])

The value saved in E2PROM as the default value is displayed.

• Operation procedure

1) In the band in which Local Seek ON/OFF switching is allowed, press [TEL] or [TI] or [PLAY MODE] key briefly to switch on or off the Local Seek (Local Seek ON/OFF).
2) Press key, [⏮] / [⏭] to manually adjust the seek stop level between 0.00V and 4.70V (E type) or 0.00 and 5.00V (K/M type) depending on the respective destination (You can keep pressing the key to adjust the level.)
   ∗ As for the K/M/E type, you may find that the key keeps moving toward DOWN direction for a while even after 0.00V is set, however at any rate the level is set to 0.00V as it is displayed.
3) Press and hold [AUD] key for 2 seconds to write the present reception level in E2PROM as the seek stop level. After the successful completion of writing the level in E2PROM, “EP_WRITE” shall be displayed.
   ∗ At this time, use Local Seek ON/OFF to change where to write in the level (Destination of the writing-in).

5. Press [⏯] key briefly to exit from TUNER setting adjustment mode. (Keep running the test mode)

◇ RDS automatic measurement function

• Objectives

This function is implemented in place of the PS display visual inspection that has been carried out in the manufacturing line in order to reduce the process.

• Functional description

After receiving PS data and confirming that contents of PS is displayed as “RDS_TEST”, forcibly turn OFF the P-CON terminal. (Note that “_” is to indicate the blank space.)

∗ This is the function dedicated only to the test mode, and it shall be designed that P-CON is recovered by cycling the power (i.e., POWER OFF→ON).

◇ Special display in TUNER source (Display of front-end error)

If the following display is shown in TUNER source, it indicates an error in the front-end or in others.

• Image of display

TNE2P_NG	Front-end E2PROM has its default value (indeterminate value)
TNCON_NG	Communication between front-ends NG

◇ K3I forced switching

In TUNER FM band, the switching in the following sequence is carried out every time when “6” key is pressed: AUTO→Forced WIDE→Forced MIDDLE→Forced NARROW→AUTO.

The initial condition is AUTO.

• Image of display

AUTO	aF1 98.1
Forced WIDE	wF1 98.1
Forced MIDDLE	mF1 98.1
Forced NARROW	nF1 98.1

■ USB source test mode

Set 23 in the Volume setting value by pressing and holding [SEARCH MODE] key for 1 second.

TEST MODE

■ BT mode test mode (KIV-BT900)

The internal LOOPBACK function is available only in the model with the built-in BT.

∗ After switching into the BT mode (BT SRC) with TEL, follow the next steps of operations:

[FAV]
∗ Press and hold this key
	Press and hold this key: To enter the internal LOOPBACK mode
	∗ Set 22 in the Volume value when the product enters the internal LOOPBACK mode.
	• Image of display
	`Internal_Loop_On`
	`EXTERNAL`
	Note: After running the internal LOOPBACK function, always reset the unit.
	If you re-run the internal LOOPBACK function without resetting the unit, then the normal operation of other BT system cannot be guaranteed.

[SEARCH MODE] ∗ Press and hold this key	Press and hold this key: To transfer into the BT device search mode and to start device detection ∗ Press and hold [SEARCH MODE] key in the device search mode to exit from the device search mode. • Operation The device search operation completes its search operation once it has detected 1 device. Press [Rotary] key briefly under the device-not-detected condition (i.e., when the “Unknown” in the next image is being displayed) to re-run the search. • Image of display `Searching` The search operation is running. `Unknown` When a device is not yet detected. `*********` When a device is detected. “*********” is the device name.

■ AUDIO adjust mode

- Press [AUD] key briefly to transfer into the Audio & DSP adjustment mode.
- Press [∗] and [AUD] key on the remote controller to transfer into the Audio & DSP adjustment mode.
- The default setting for the DSP Set shall be Bypass.
- Press [⏮] / [⏭] key or turn the encoder to adjust Fader to 3 stages (R15 ↔ 0 ↔ F15). (Initial value is 0)
- Press [⏮] / [⏭] key or turn the encoder to adjust Balance to 3 stages (L15 ↔ 0 ↔ R15). (Initial value is 0)
  Press [⏮] / [⏭] key or turn the encoder to adjust Sub Woofer Level to 3 stages (-15 ↔ 0 ↔ +15). (Initial value is OFF)
- Press [⏮] / [⏭] key or turn the encoder to adjust Volume Offset (except for the internal AUX) to 2 stages (-8 ↔ 0). (Initial value is OFF)
- Press [⏮] / [⏭] key or turn the encoder to adjust Volume Offset (internal AUX) to 3 stages (-8 ↔ 0 ↔ +8). (Initial value is OFF)
- In the Test mode, setting items for DSP Set and 2ZONE ON/OFF are located at the first and second positions.
  The first line of the list is DSP Set, and the second line is 2ZONE ON/OFF.
- Except for the above 2 items, the sequence of order of UIs and items is same as the sequence in the normal mode (Product specification). (Refer to the following APPENDIX for the sequence of order.)
- When the source is STANDBY, the source is other than BT Mode or 2ZONE is OFF, switch between Bypass and Through by pressing and holding [FAV] key for 1 second.
- After transferring to AUX source, forcibly set DSP ON (Through setting) in DSP setting.
  After transferring to other source than AUX source (except for STANDBY and BT Mode), forcibly set DSP OFF (Bypass setting) in DSP setting.
  ∗ Note that because the DSP settings cannot be switched in the case of 2Zone ON the settings do not change even if the source has been switched.

TEST MODE

■ Menu list adjust mode

- Press [MENU] key briefly to display the Menu list.
- Press [DNPP/SBF] and [DIRECT] key on the remote controller to transfer into the Menu list mode.
- You shall not use the remote controller to successively send the items.
- Only in the Test mode, add “Phone Selection” in Menu list display when the source is STANDBY, and it is located as the default item (head of the list). (Only in the model with the built-in BT)
- In Tuner (FM) source, the Local Seek shall be the first item. (Only for E destination)

■ Backup current measurement

When the unit is reset when it is in ACC OFF (BackUp ON) condition, MUTE terminal is not turned off in 15 seconds but in 2 seconds.

■ DC offset error detection information clear (E2PROM data clear)

While keeping pressing [SRC] and [⏯] keys, reset and turn on the unit to enter the DC offset error display mode.
(While “––––” is being displayed, power can be ON for 30 minutes.)
In the display during STANDBY source, the present DC offset error detection condition is displayed.

1st row	DC offset error detection display 1 (Information to indicate if there is a misconnection or other detection or not)		
	(Display)	DC1_OK__	(Not detected yet)
		ERR	(A misconnection or other detection)
2nd row	DC offset error detection display 2 (Number of capacitor leak detected)		
	(Display)	DC2_0___	(Not detected yet)
		1___	(Leak detected once)
		2___	(Leak detected 2 times)
		3___	(Leak detected 3 times)
		4___	(Leak detected 4 times or more)

■ Channel space switching (Only for models of destination “K” and “M”)

While keeping pressing [AUD] and [DISP] keys during POWER OFF, press [SRC] key to turn the unit on.
FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz

■ Security (Only for European model)

◇ Forced POWER ON mode

Even if “____” is being displayed, it is possible to turn on the power (POWER ON) only for 30 minutes by resetting the product while pressing [SRC] and [TI] keys. After 30 minutes have elapsed, the set can be recovered only by resetting it.

◇ How to clear the security code

1. While “____” is being displayed, press [⏭] key for 3 seconds or longer while pressing the [TI] key. (This makes the “____” display disappear.)
2. Input “KCAR”, using the remote controller.
   Press [5] key of the remote controller 2 times (Input for “K”) and press [⏭] key.
   Press [2] key of the remote controller 3 times (Input for “C”) and press [⏭] key.
   Press [2] key of the remote controller once (Input for “A”) and press [⏭] key.
   Press [7] key of the remote controller 2 times (Input for “R”) and press [⏭] key.
3. The security is cleared and the unit enters STANDBY mode.
4. If wrong codes are input, “____” will be displayed again.

TEST MODE

■ ROM correction (system µ-com) update functional specification

While keeping pressing [SEARCH MODE] and [Play/Pause] keys, operate reset and BU ON to transfer into this mode.

Procedure	Display	Description
Reset and BU ON operation during Press [SEARCH MODE] and [Play/Pause]	ROM Corre Update	(Display lights up)

After entering the mode, make the normal SRC feed with the [SRC] key, or USB insertion.
The display of the SRC switching and Reading is shown in the same manner as the display in the normal mode.
After the completion of Reading, start the Update if there is an update file.
If there is no Update File, display “No File”.

SRC USB insert	Reading	While the “Reading” is displayed after the SRC has been switched: (Display blinks)
	ROM Corre Update No File	When there is no update file: (Display lights up)
	ROM Corre Update Updating	When there is an update file and it is being updated: (Display blinks)
	ROM Corre Update Complete	When Update is successfully completed: (Display lights up)
	ROM Corre Update Update Error	When an Update Error has occurred: (Display lights up)

In ROM correction UPDATE mode, DEMO mode display shall be masked or the start of its display shall be delayed.

∗ In the software internal specification, DEMO mode ON setting is invalidated or DEMO mode start control timer is repeatedly initialized during the ROM correction update.

INSTALLER MEMORY SPECIFICATIONS

At specialists (or specialty stores), when the installer sends the vehicle back to the user, they may make the store-recommended audio configuration.
When the user changes the setting values, when the backup power supply was taken out at times of battery change or when the reset button was pressed, to make it possible to recall the setting values, the store-recommended configuration values can be saved into E2PROM.
The specification detail defer in “with-DSP model” and in “without-DSP model”.

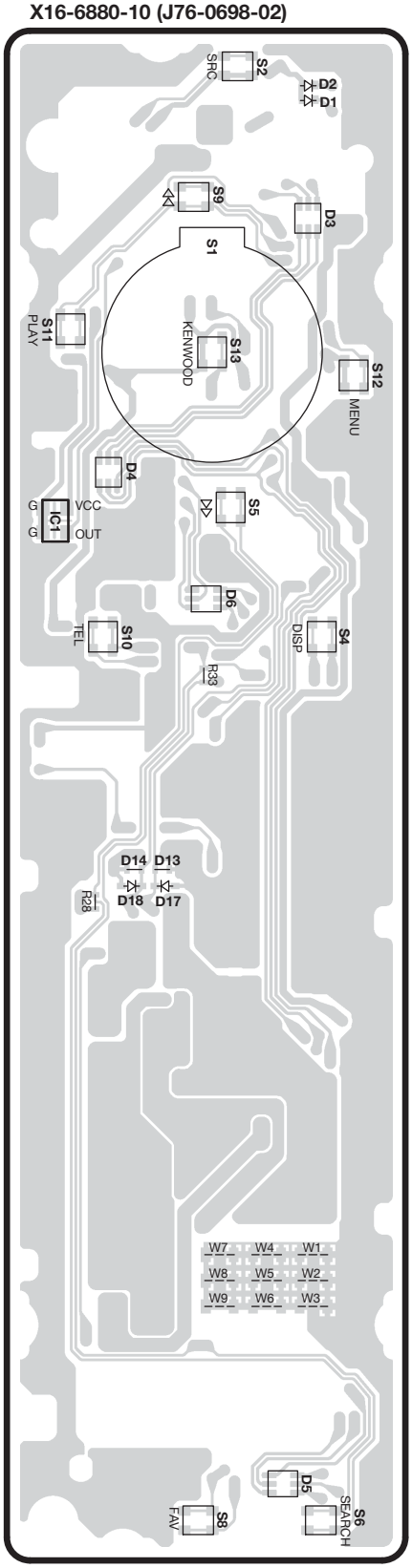
[Models with DSP]

- Calling and saving the configuration is done by the multi-function key. ([Preset-1])
- Items to be saved are Car Type, Position, Speaker, EQ, X’over, Car Type Adjust, and Sub Woofer Level. Only one setting can be saved for each item. (EQ setting can be changed for each source, but only one setting can be saved as the installer memory specification, and the source in which the saving operation was carried out is saved as such.)
  Also, the setting values of all Preset Positions will be memorized for the setting value of DTA. (6 speakers x4)
- The contents read out by the call key shall be reflected only to the current source at the time. → EQ curve is “USER”. (EQ setting can be changed for each source, but not reflected to EQ settings of sources other than where the calling operation was carried out.)
- When the backup power supply was taken out at times of battery change or when the reset button was pressed, as the initial setting values of Car Type, Position, Speaker, EQ, X’over, Car Type Adjust, and Sub Woofer Level, the saved memory is reflected (EQ setting initial setting value memory is reflected in all sources).

NOTE: By such, EQ curve initial setting shall always be “USER”. (NOT “NATURAL” or “FLAT”.)

PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT
X16-6880-10 (J76-0698-02)

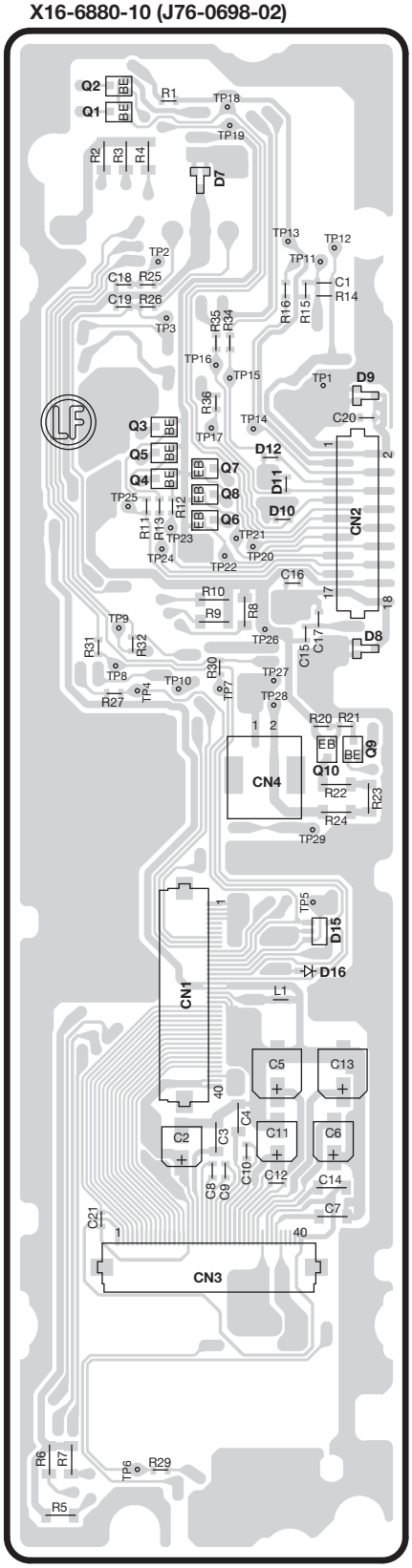


X16-6880-10

Ref. No.	Address
IC1	3A

PC BOARD (FOIL SIDE VIEW)

SWITCH UNIT
X16-6880-10 (J76-0698-02)



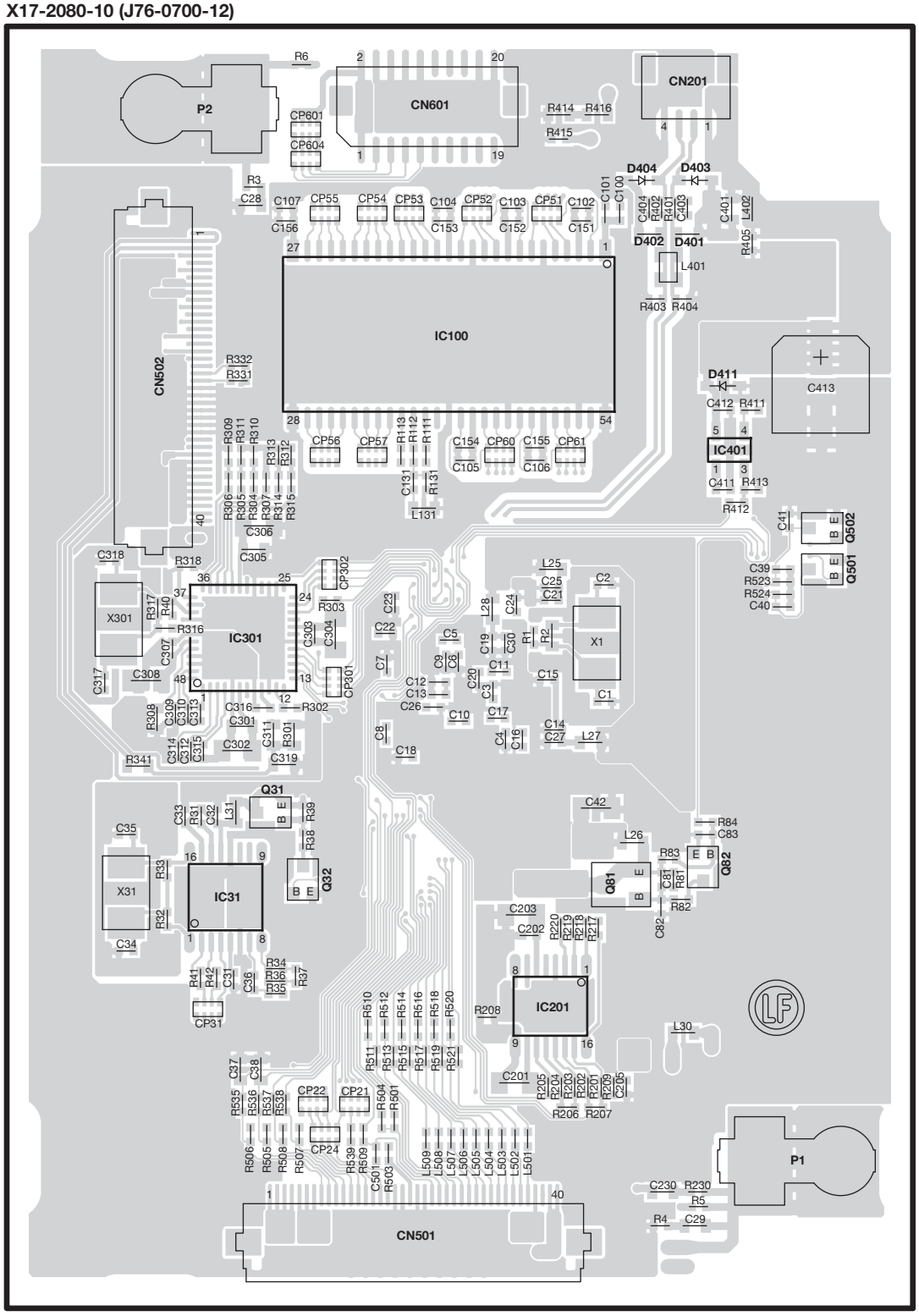
X16-6880-10

Ref. No.	Address
Q1	2C
Q3	3C
Q4	3C
Q5	3C
Q6	3D
Q7	3D
Q8	3D
Q9	4D
Q10	4D

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

PC BOARD (COMPONENT SIDE VIEW)

PROCESSOR UNIT
X17-2080-10 (J76-0700-12)



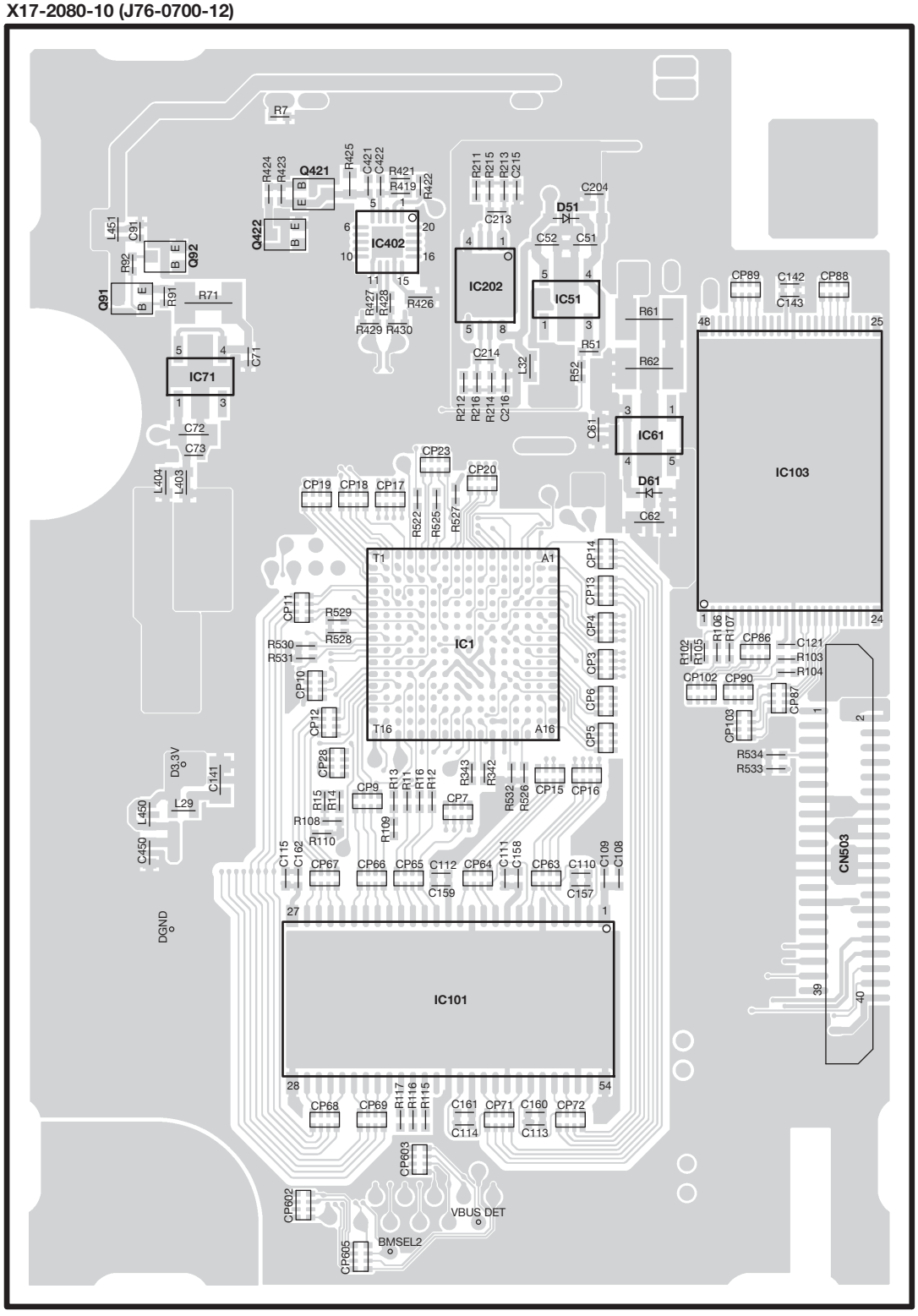
X17-2080-10

Ref. No.	Address
IC100	3H
IC201	5H
IC301	4G
IC401	3I
Q501	4I
Q502	3I

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

PC BOARD (FOIL SIDE VIEW)

PROCESSOR UNIT
X17-2080-10 (J76-0700-12)



X17-2080-10

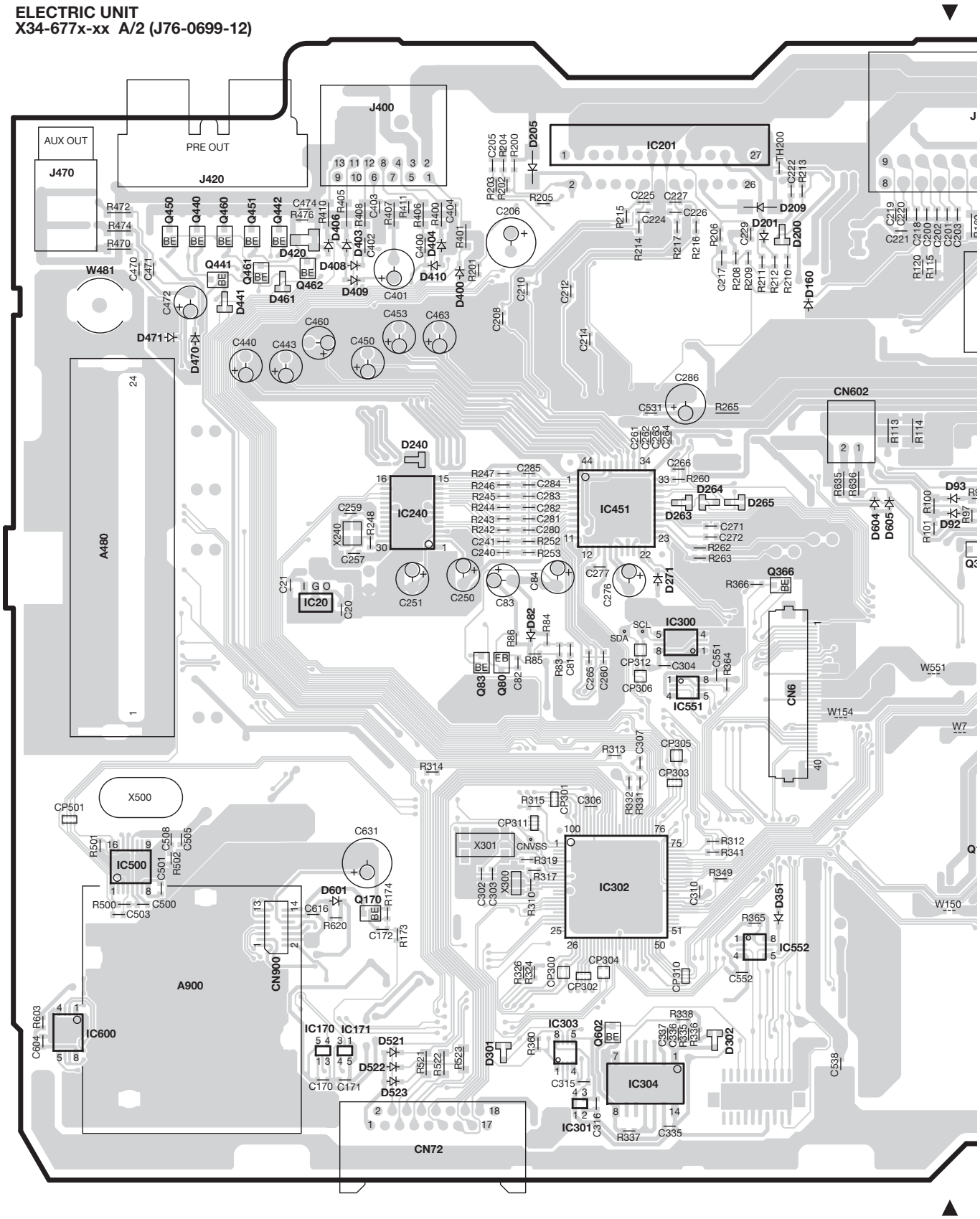
Ref. No.	Address
IC1	4M
IC51	3N
IC61	3N
IC71	3L
IC101	5M
IC103	3O
IC402	2M
Q91	3L
Q92	2L

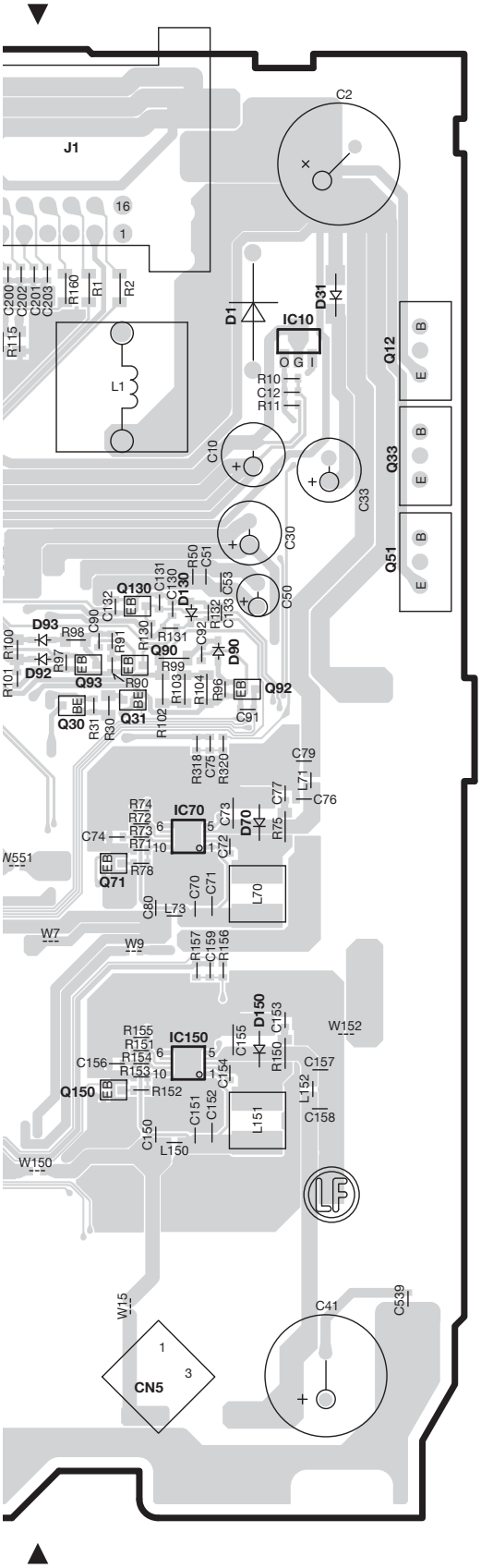
Refer to the schematic diagram for the values of resistors and capacitors.

KIV-700/BT900

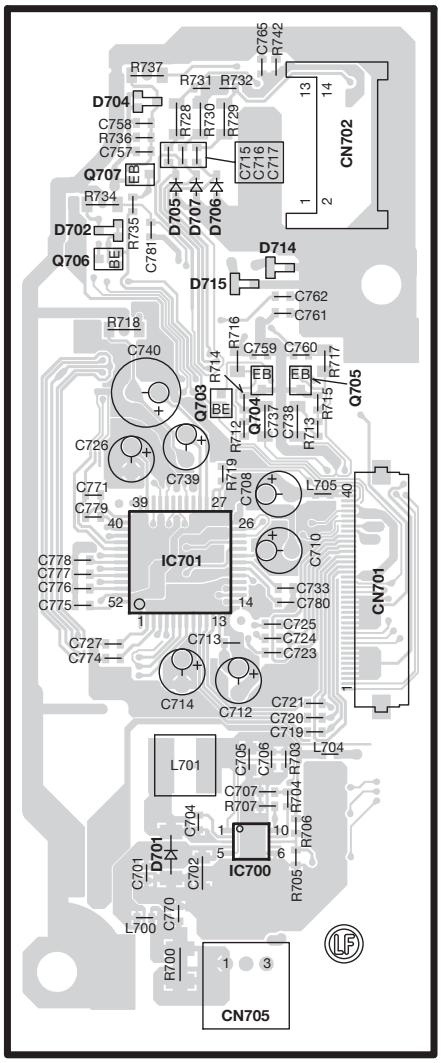
PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT
X34-677x-xx A/2 (J76-0699-12)





X34 B/2



X34-677x-xx

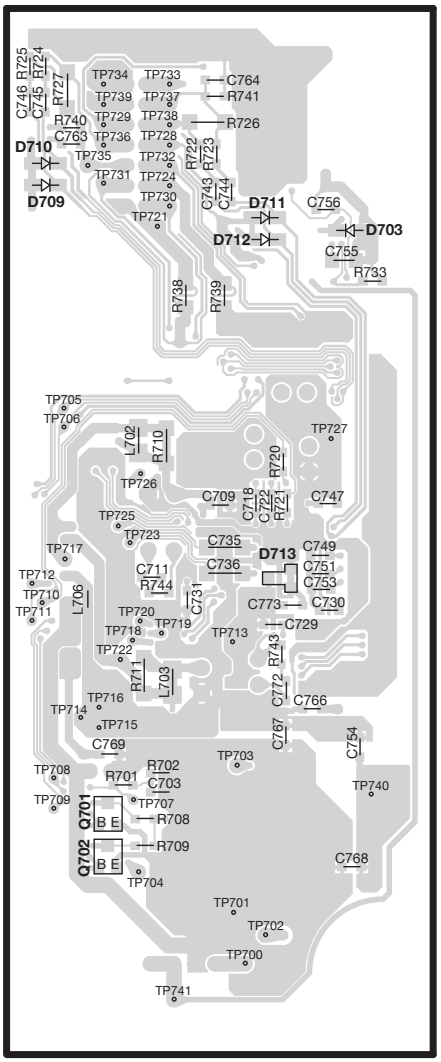
Ref. No.	Address
IC10	2V
IC20	4Q
IC70	4U
IC170	6Q
IC171	6R
IC201	2S
IC240	4R
IC300	4S
IC301	6S
IC302	5S
IC303	6S
IC304	6S
IC451	4S
IC500	5Q
IC551	5S
IC552	6T
IC600	6P
IC700	5W
IC701	4W
Q12	3V
Q33	3V
Q51	3V
Q80	4R
Q83	4R
Q90	4U
Q92	4U
Q93	4U
Q130	3U
Q170	5R
Q366	4T
Q440	2Q
Q441	2Q
Q442	2Q
Q450	2Q
Q451	2Q
Q460	2Q
Q461	2Q
Q462	3Q
Q602	6S
Q703	4W
Q704	4W
Q705	4X
Q706	3W

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

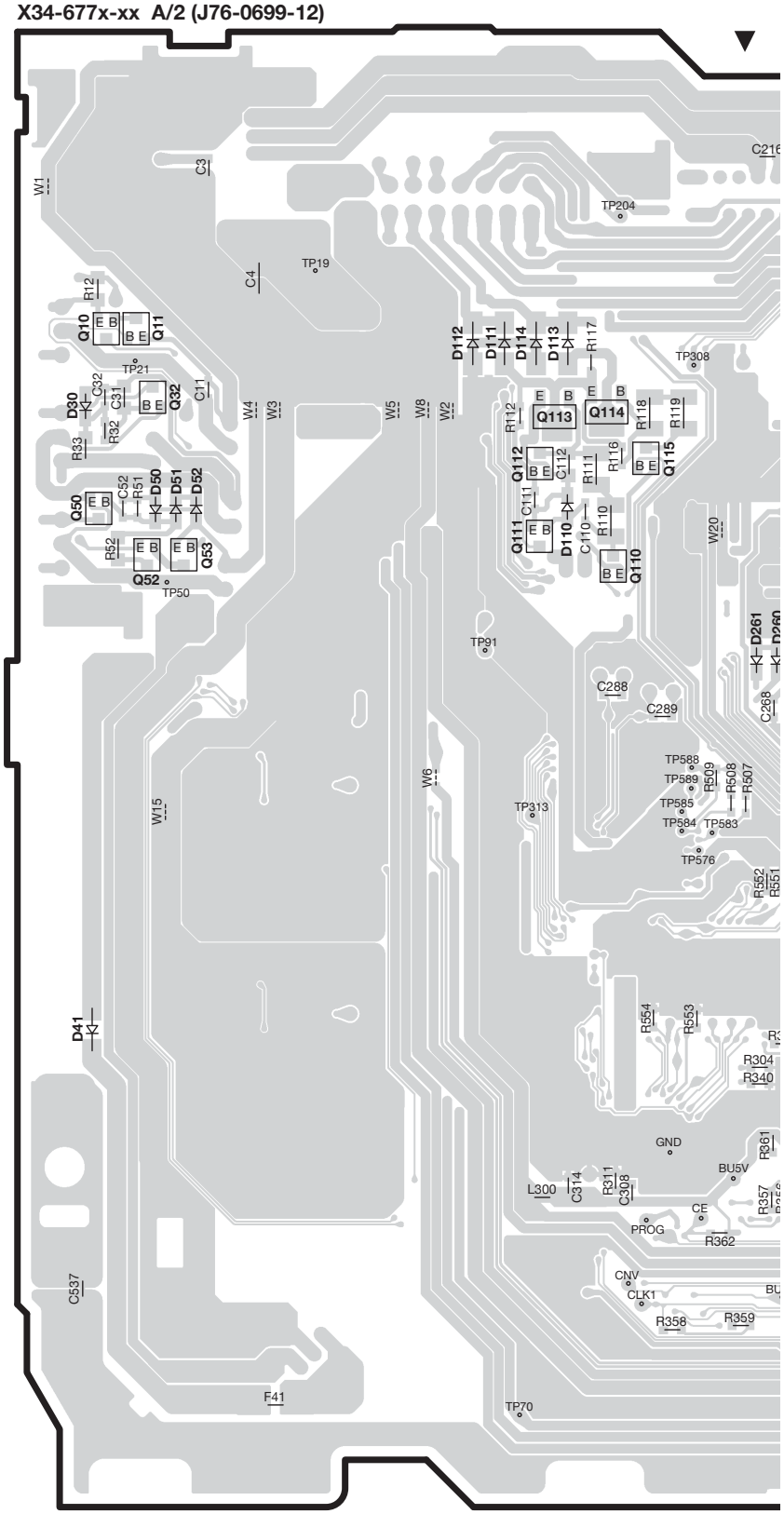
KIV-700/BT900

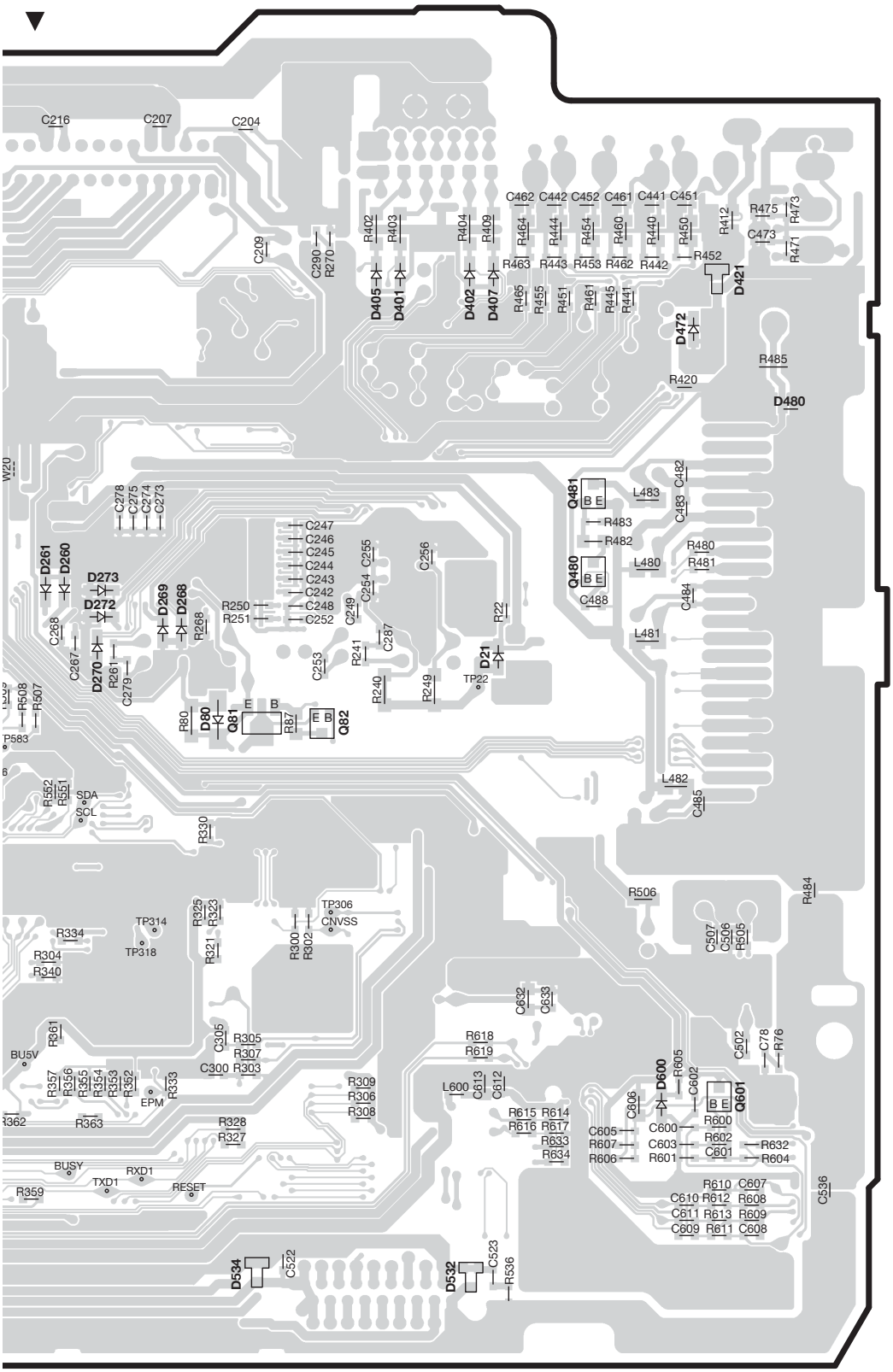
PC BOARD (FOIL SIDE VIEW)

X34 B/2



ELECTRIC UNIT
X34-677x-xx A/2 (J76-0699-12)



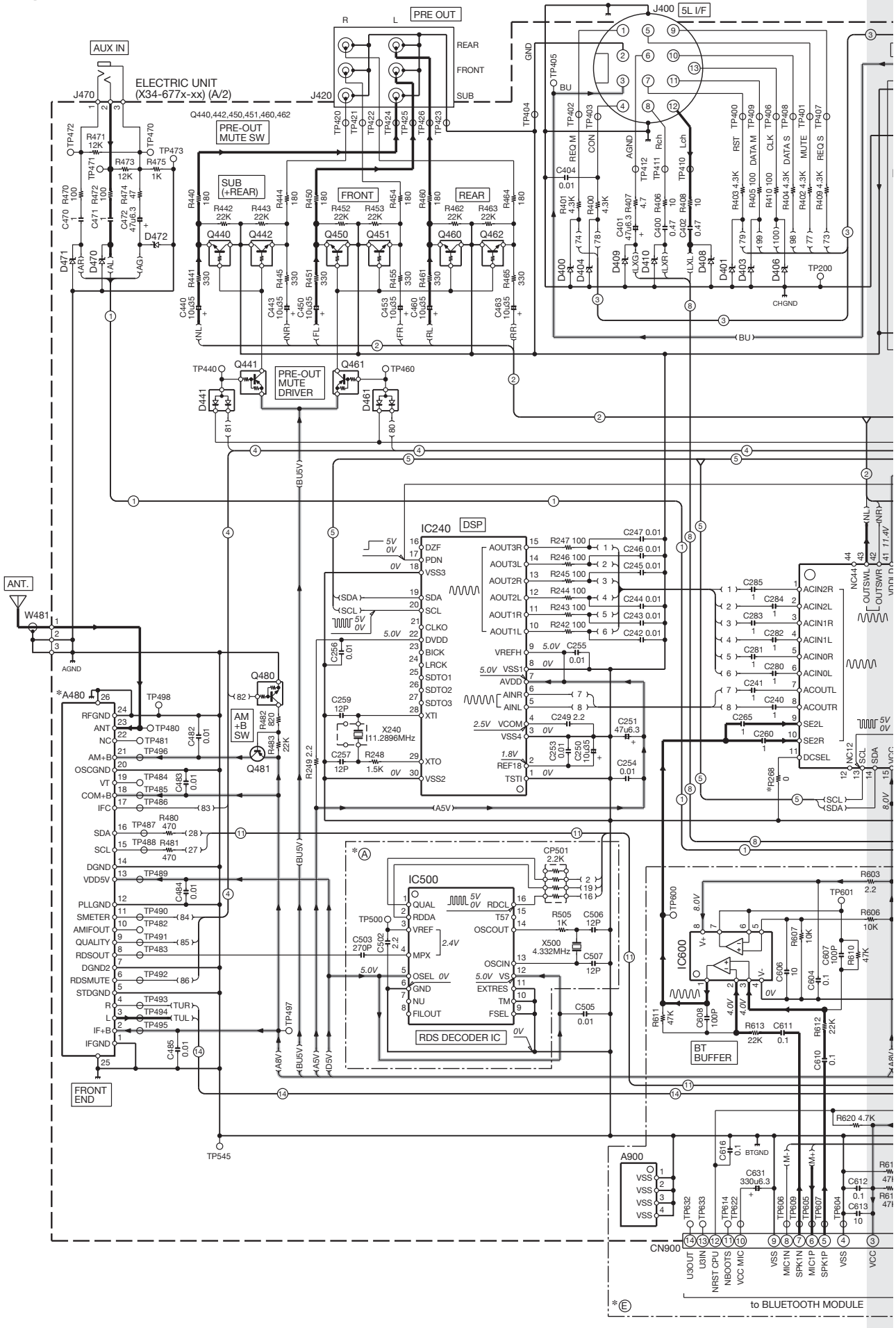


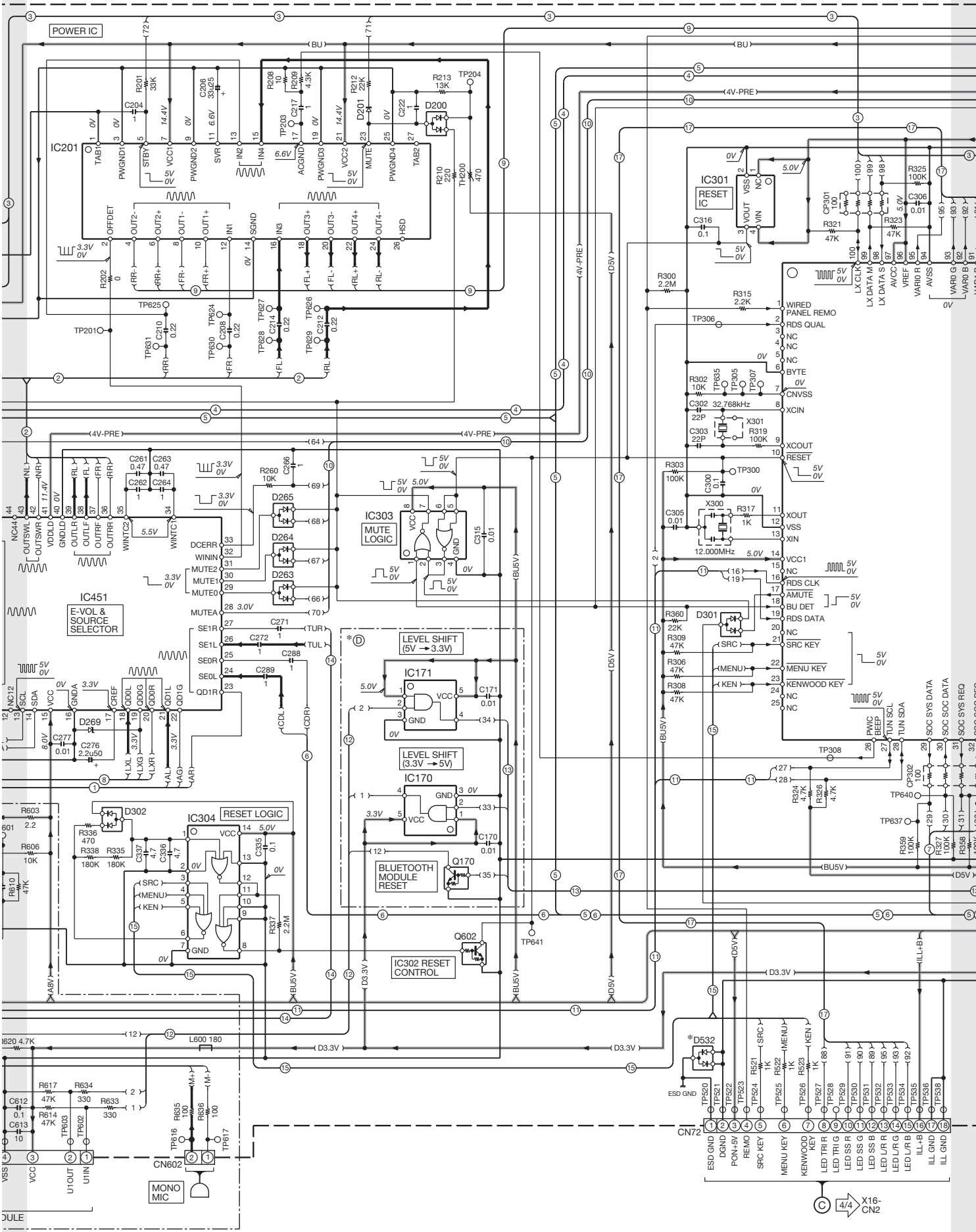
X34-677x-xx

Ref. No.	Address
Q10	3AB
Q11	3AB
Q32	3AB
Q50	3AB
Q52	3AB
Q53	3AB
Q81	4AE
Q82	4AF
Q110	3AD
Q111	3AD
Q112	3AD
Q113	3AD
Q114	3AD
Q115	3AD
Q480	4AG
Q481	3AG
Q702	5Z

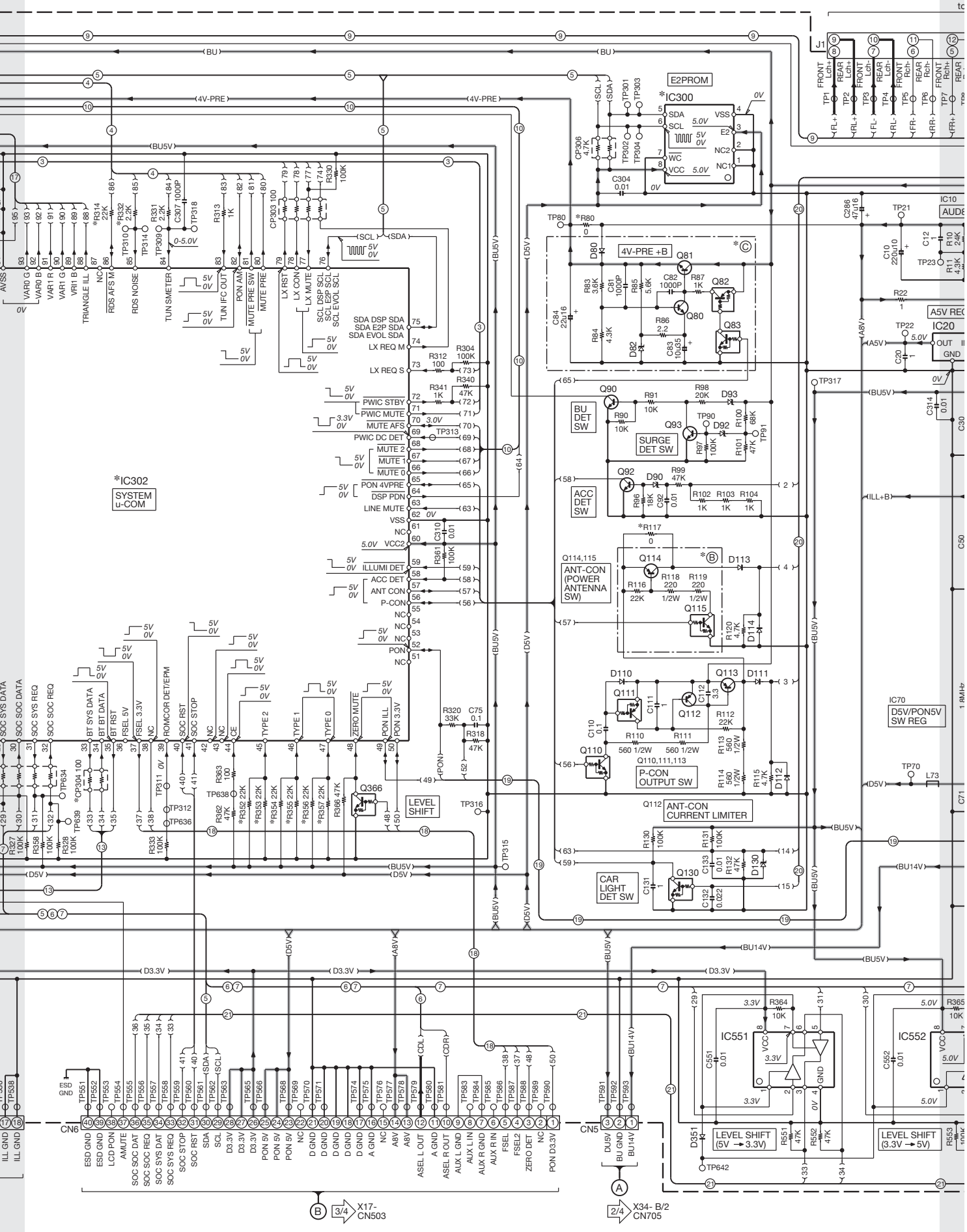
Refer to the schematic diagram for the values of resistors and capacitors.

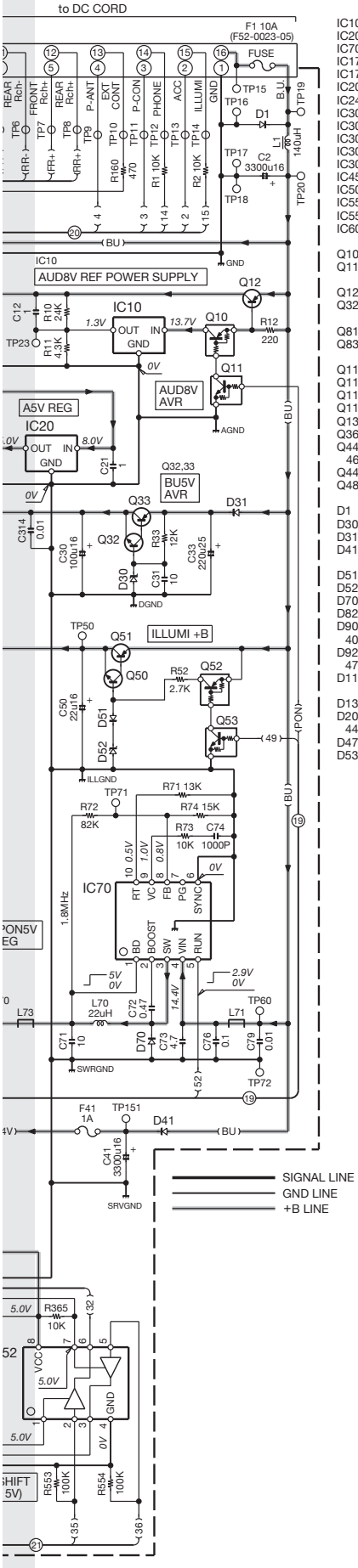
KIV-700/BT900




POWER IC
IC201
IC301
RESET IC
IC303
MUTE LOGIC
IC451
E-VOL & SOURCE SELECTOR
IC171
IC170
IC304
RESET LOGIC
LEVEL SHIFT (5V → 3.3V)
LEVEL SHIFT (3.3V → 5V)
BLUETOOTH MODULE RESET
IC302 RESET CONTROL
MONO MIC
CN72
CN602
X16-CN2
WIRED PANEL REMO
RDS QUAL
BYTE
CNVSS
XCIN
XCOUT
RESET
XOUT
VSS
XIN
VCC1
RDS CLK
AMUTE
BU DET
RDS DATA
SRC KEY
MENU KEY
KENWOOD KEY
PMIC BEEP
TUN SCL
TUN SDA
SOC SYS DATA
SOC SOC DATA
SOC SYS REQ
12.000MHz
32.768kHz
ESD GND
DGND
PON+5V
REMO
SRC KEY
MENU KEY
KENWOOD KEY
LED TRI R
LED TRI G
LED SS R
LED SS G
LED SS B
LED L/R R
LED L/R G
LED L/R B
ILL+B
ILL GND

KIV-700/BT900





IC10 : M5237ML-CF0J
IC20 : XC6201P502PR
IC70 : See parts list.
IC170 : 74AHC1G08GW
IC171 : 74AHCT1G08GW
IC201 : E-TDA7850A
IC240 : AK7600VF
IC300 : *
IC301 : XC6120N362N1
IC302 : *
IC303 : 74HC2G02DP
IC304 : HD74HC27FP-E
IC451 : E-TDA7716
IC500 : E-TDA7478AD
IC551 : TC7WH126FU-F
IC552 : TC7WT126FU-F
IC600 : NJM4565V-ZB

Q10,52,82 : DTA124EUA
Q11,53,480 : DTC124EUA
Q12,33,51 : KTA1046-P
Q32,50,80,90,92,93 : 2SC4081
Q81 : 2SC5053
Q83,170,602 : RT1N241M-T111
Q110,115 : DTC114YUA
Q111 : DTA114EUA
Q112 : 2SA1576A
Q113,114 : 2SB1188(Q,R)
Q130 : RT1N441M-T111
Q366 : RT1N144M-T111
Q440,442,450,451,460, 462 : RT1N430M-T111
Q441,461 : RT1P241M-T111
Q481 : 2SA1577

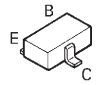
D1 : S2V60-5009F46
D30 : UDZW5.6(B)
D31 : D1FJ4
D41,80,111-114 : 1SR154-400
D51 : 1SS355
D52 : UDZW10(B)
D70 : CMS14
D82 : RKZ5.6KG(B2)
D90,400,401,403,404, 406 : RKZ6.2KG(B2)
D92,93,269,408-410, 470,471 : RKZ6.8KG(B2)
D110,201,351 : HSU119TRF-E
D130 : RKZ4.7KG(B2)
D200,263-265,301,302, 441,461 : MC2846-T111
D472 : UDZW6.8(B)
D532 : DA204U

ELECTRIC UNIT (X34-677x-xx)

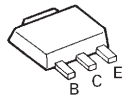
MODEL NAME	DESTINATION	UNIT No.	Ⓐ	Ⓑ	Ⓒ	Ⓓ	Ⓔ	A480	D532	IC300	IC302	CP304	R80 268	R117 314,332	R352	R353	R354	R355	R356	R357
I-K99	J	0-01	—	YES	—	—	—	X86-4230-01	—	M24C08-RDW6TP	W05-1617-00	—	YES	—	—	YES	—	YES	—	YES
KIV-BT900	K	0-10	YES	YES	YES	YES	YES	X86-4230-11	YES	M24256BRDW6TP	W05-1616-00	YES	—	—	YES	—	YES	—	YES	YES
KIV-700	K1	0-11	YES	YES	YES	—	—	X86-4230-11	—	M24256BRDW6TP	W05-1617-00	—	—	—	YES	—	YES	—	—	YES
KIV-700	M1	0-21	—	YES	YES	—	—	X86-4230-11	—	M24C08-RDW6TP	W05-1617-00	—	—	—	—	YES	YES	—	—	YES
KIV-700	E1	2-71	YES	—	YES	—	—	X86-4032-70	—	M24C08-RDW6TP	W05-1617-00	—	—	YES	YES	—	—	—	—	YES

KIV-700/BT900 (1/4)

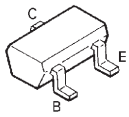
DTC114YUA
DTC143TUA
2SA1576A



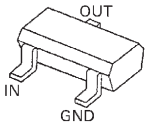
2SB1188



2SC4081

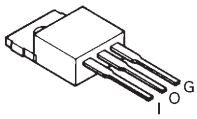


DTA114EUA
DTA124EUA
DTC124EUA
DTC144EUA



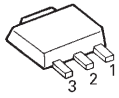
DAN202U

KTA1046-P

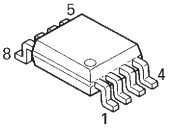


DA204U
DTA114YUA

M5237ML-CF0J



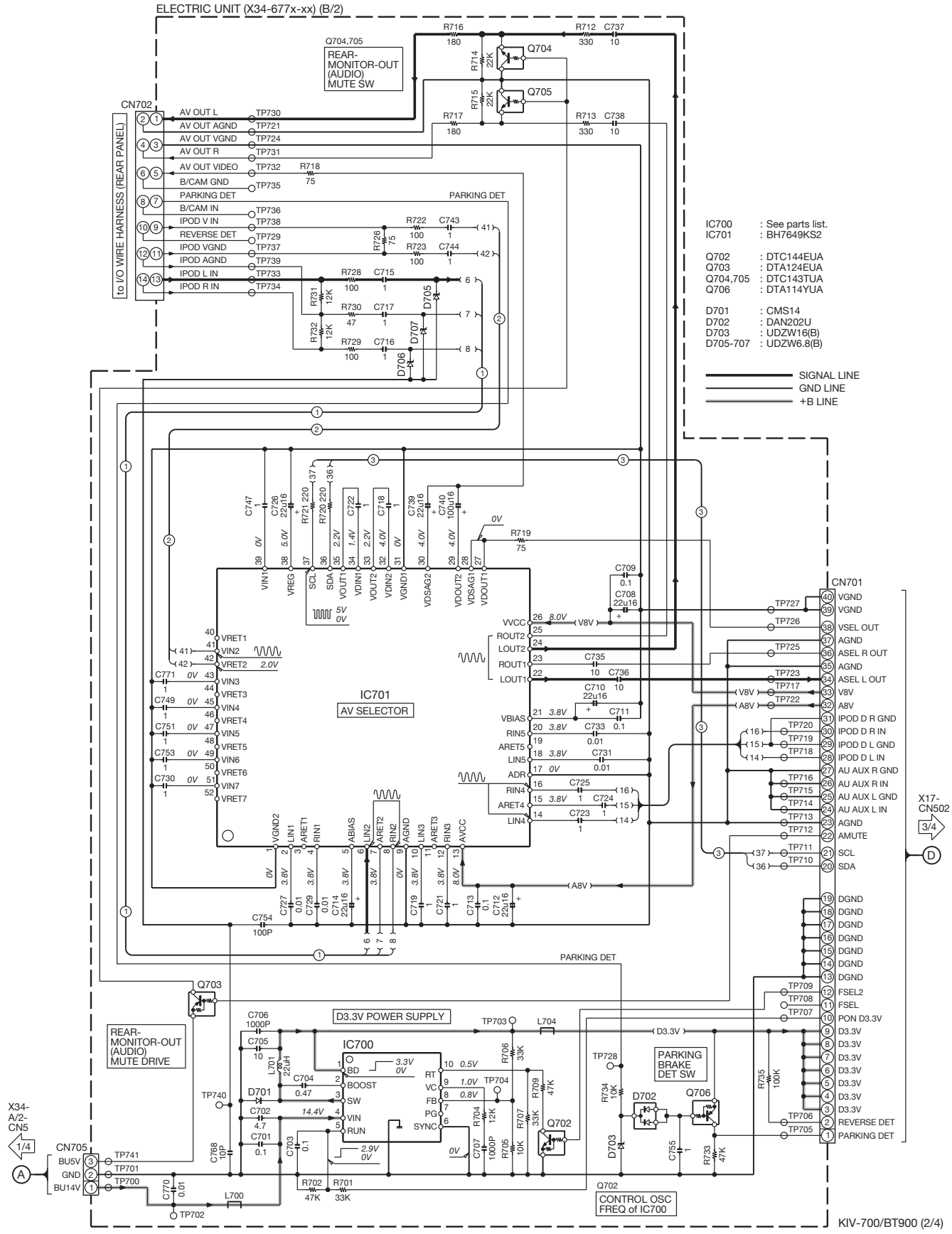
TC7WH126FU-F



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

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

KIV-700/BT900



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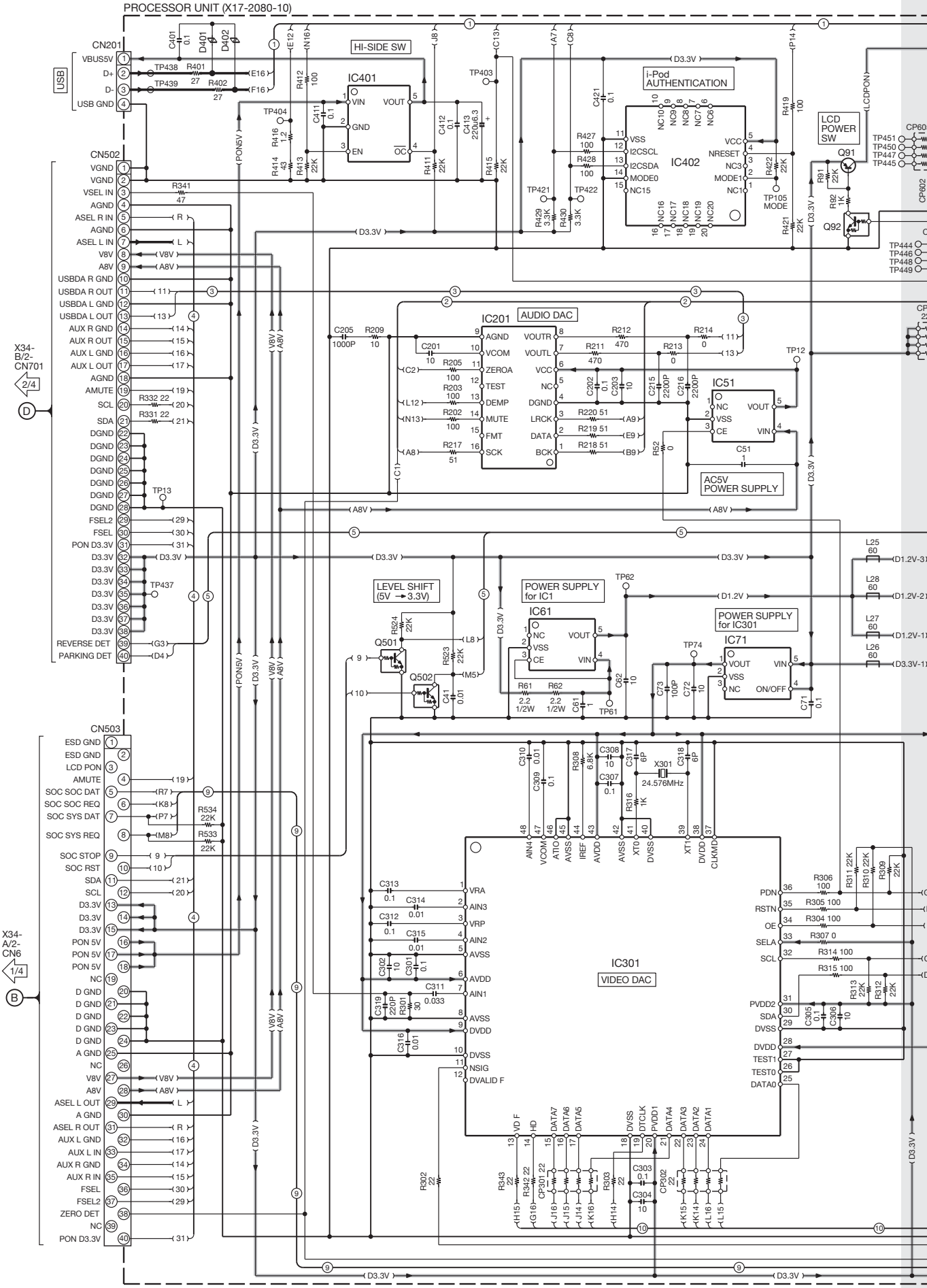
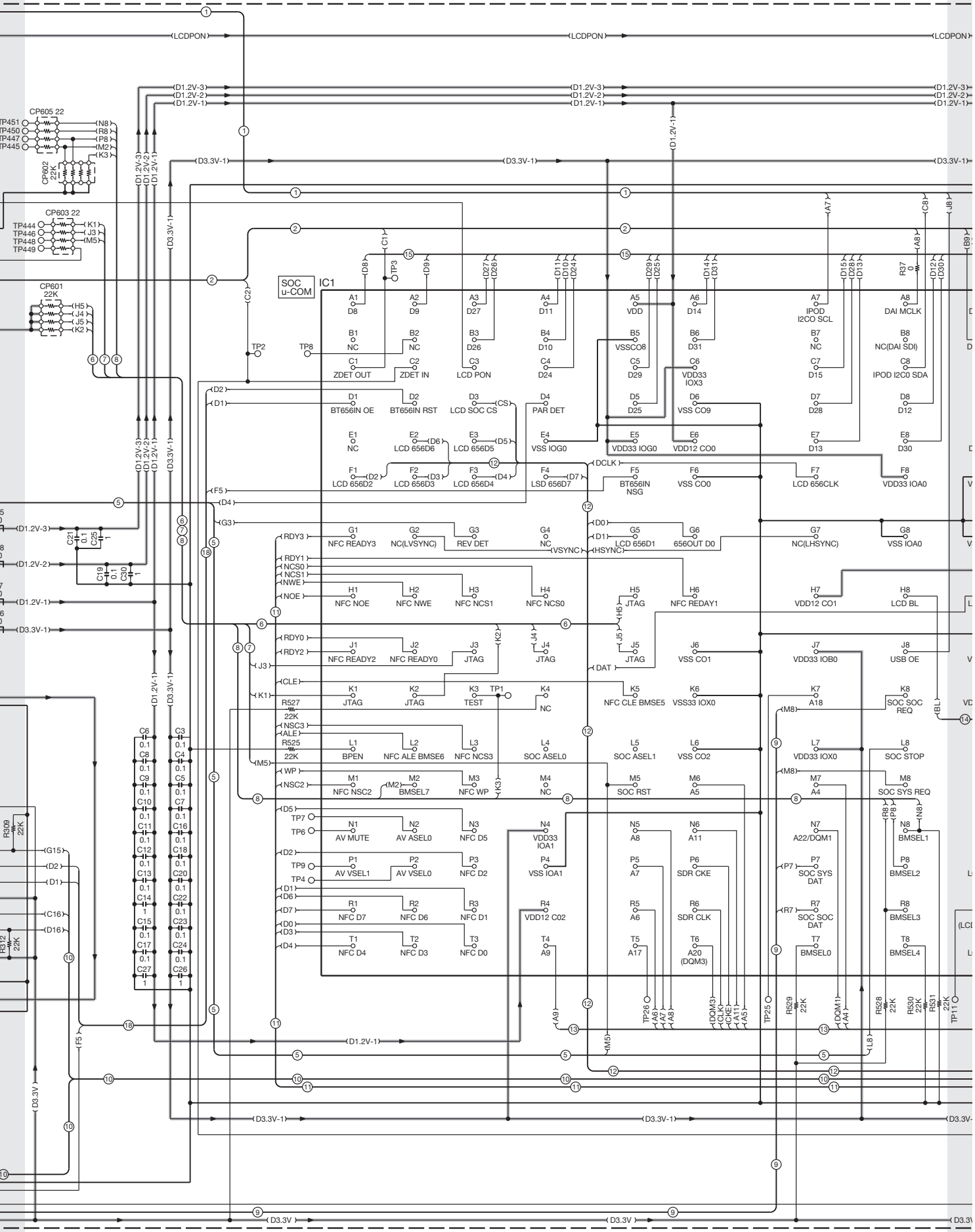
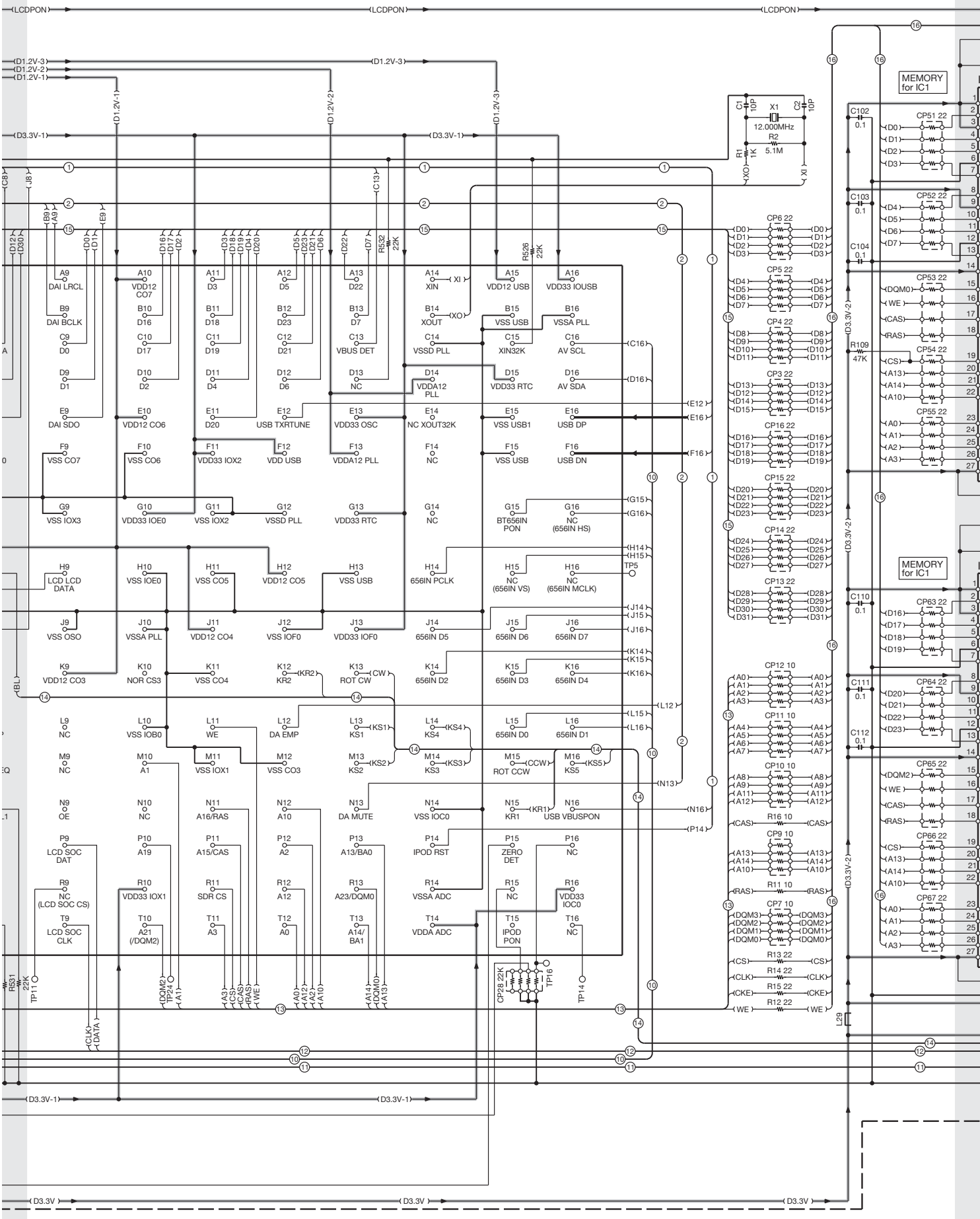
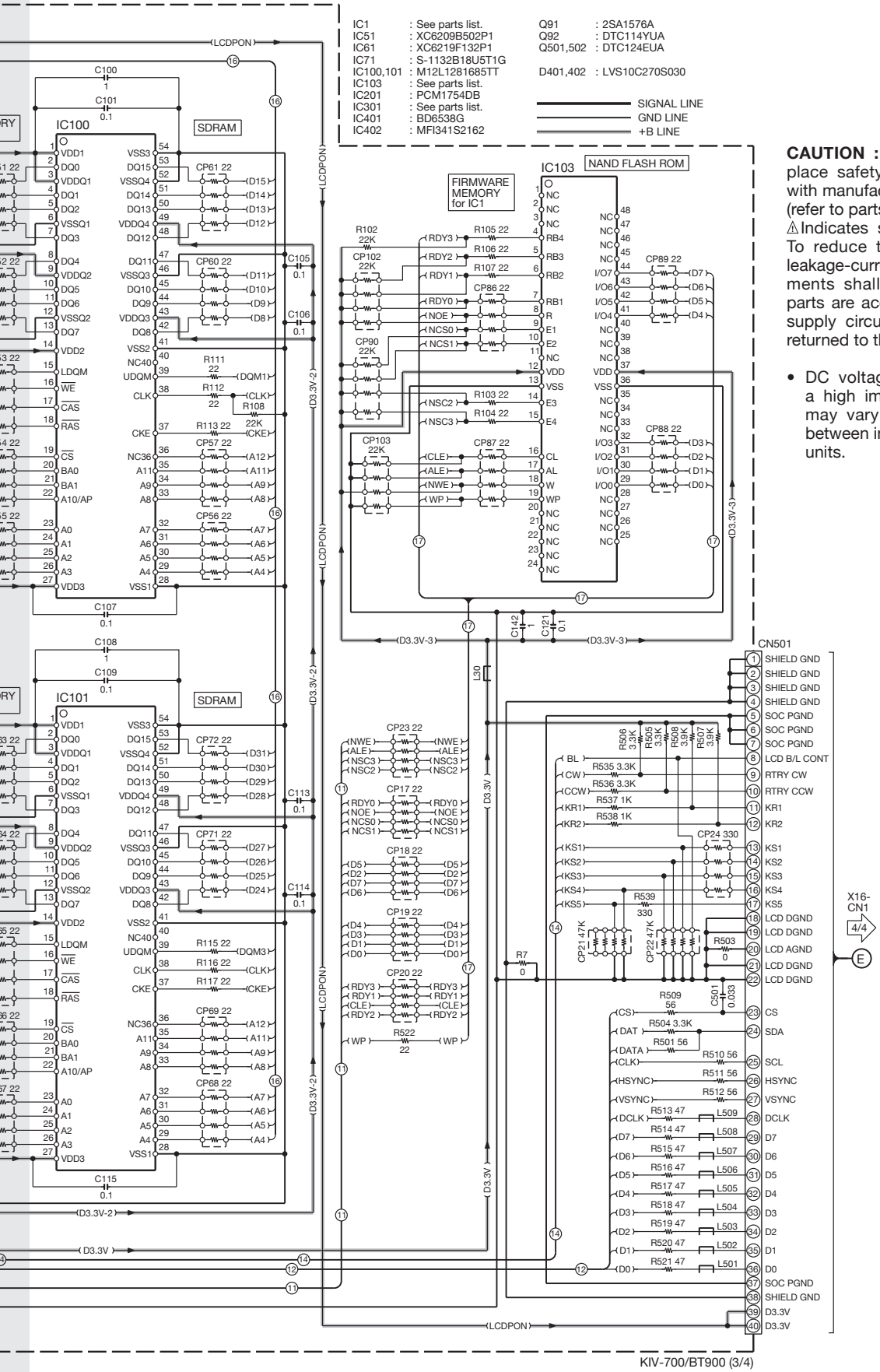

PROCESSOR UNIT (X17-2080-10)
CN201
USB
VBUS5V
D+
D-
USB GND
HI-SIDE SW
IC401
VIN
VOUT
GND
EN
OC
i-Pod AUTHENTICATION
IC402
VSS
I2CSCL
I2CSDA
MODE0
NC15
VCC
NRESET
NC3
MODE1
NC1
LCD POWER SW
Q91
Q92
CN502
VGND
VSEL IN
AGND
ASEL R IN
ASEL L IN
V8V
A8V
USBDA R GND
USBDA R OUT
USBDA L GND
USBDA L OUT
AUX R GND
AUX R OUT
AUX L GND
AUX L OUT
AMUTE
SCL
SDA
DGND
FSEL2
FSEL
PON D3.3V
D3.3V
REVERSE DET
PARKING DET
X34-B/2-CN701
2/4
IC201
AUDIO DAC
AGND
VCOM
ZEROA
TEST
DEMP
MUTE
FMT
SCK
VOUTR
VOUTL
VCC
NC
DGND
LRCK
DATA
BCK
IC51
AC5V POWER SUPPLY
LEVEL SHIFT (5V → 3.3V)
Q501
Q502
POWER SUPPLY for IC1
IC61
POWER SUPPLY for IC301
IC71
ON/OFF
CN503
ESD GND
LCD PON
SOC SOC DAT
SOC SOC REQ
SOC SYS DAT
SOC SYS REQ
SOC STOP
SOC RST
A GND
ASEL L OUT
ASEL R OUT
AUX L GND
AUX L IN
AUX R GND
AUX R IN
ZERO DET
X34-A/2-CN6
1/4
X301
24.576MHz
IC301
VIDEO DAC
VRA
AIN3
VRP
AIN2
AVSS
AVDD
AIN1
DVDD
DVSS
NSIG
DVALID F
VD F
HD
DATA7
DATA6
DATA5
DVSS
DTCLK
PVDD1
DATA4
DATA3
DATA2
DATA1
PDN
RSTN
OE
SELA
SCL
PVDD2
SDA
DVSS
DVDD
TEST1
TEST0
DATA0
D3.3V
V8V
A8V
PON5V
D1.2V

KIV-700/BT900




LCDPON
D1.2V-3
D1.2V-2
D1.2V-1
D3.3V-1
D3.3V-2
D3.3V
MEMORY for IC1
X1 12.000MHz
C1 10P
C2 10P
R1 1K
R2 5.1M
XO
XI
A9 DAI LRCL
B9 DAI BCLK
C9 D0
D9 D1
E9 DAI SDO
A10 VDD12 CO7
B10 D16
C10 D17
D10 D2
E10 VDD12 CO6
A11 D3
B11 D18
C11 D19
D11 D4
E11 D20
F11 VDD33 IOX2
G11 VSS IOX2
A12 D5
B12 D23
C12 D21
D12 D6
E12 USB TXRTUNE
F12 VDD USB
G12 VSSD PLL
A13 D22
B13 D7
C13 VBUS DET
D13 NC
E13 VDD33 OSC
F13 VDDA12 PLL
G13 VDD33 RTC
A14 XIN
B14 XOUT
C14 VSSD PLL
D14 VDDA12 PLL
E14 NC XOUT32K
F14 NC
G14 NC
A15 VDD12 USB
B15 VSS USB
C15 XIN32K
D15 VDD33 RTC
E15 VSS USB1
F15 VSS USB
G15 BT656IN PON
A16 VDD33 IOUSB
B16 VSSA PLL
C16 AV SCL
D16 AV SDA
E16 USB DP
F16 USB DN
G16 NC (656IN HS)
H9 LCD LCD DATA
H10 VSS IOE0
H11 VSS CO5
H12 VDD12 CO5
H13 VSS USB
H14 656IN PCLK
H15 NC (656IN VS)
H16 NC (656IN MCLK)
TP5
J9 VSS OSO
J10 VSSA PLL
J11 VDD12 CO4
J12 VSS IOF0
J13 VDD33 IOF0
J14 656IN D5
J15 656IN D6
J16 656IN D7
K9 VDD12 CO3
K10 NOR CS3
K11 VSS CO4
K12 KR2
K13 ROT CW
K14 656IN D2
K15 656IN D3
K16 656IN D4
L9 NC
L10 VSS IOB0
L11 WE
L12 DA EMP
L13 KS1
L14 KS4
L15 656IN D0
L16 656IN D1
M9 NC
M10 A1
M11 VSS IOX1
M12 VSS CO3
M13 KS2
M14 KS3
M15 ROT CCW
M16 KS5
N9 OE
N10 NC
N11 A16/RAS
N12 A10
N13 DA MUTE
N14 VSS IOC0
N15 KR1
N16 USB VBUSPON
P9 LCD SOC DAT
P10 A19
P11 A15/CAS
P12 A2
P13 A13/BA0
P14 IPOD RST
P15 ZERO DET
P16 NC
R9 NC (LCD SOC CS)
R10 VDD33 IOX1
R11 SDR CS
R12 A12
R13 A23/DQM0
R14 VSSA ADC
R15 NC
R16 VDD33 IOC0
T9 LCD SOC CLK
T10 A21 (/DQM2)
T11 A3
T12 A0
T13 A14/ BA1
T14 VDDA ADC
T15 IPOD PON
T16 NC
R526 22K
R532 22K
R531 22K
CP28 22K
TP11
TP14
TP16
CP6 22
CP5 22
CP4 22
CP3 22
CP16 22
CP15 22
CP14 22
CP13 22
CP12 10
CP11 10
CP10 10
R16 10
CP9 10
R11 10
CP7 10
R13 22
R14 22
R15 22
R12 22
C102 0.1
C103 0.1
C104 0.1
C110 0.1
C111 0.1
C112 0.1
R109 47K
CP51 22
CP52 22
CP53 22
CP54 22
CP55 22
CP63 22
CP64 22
CP65 22
CP66 22
CP67 22
L29

KIV-700/BT900



KIV-700/BT900 (3/4)

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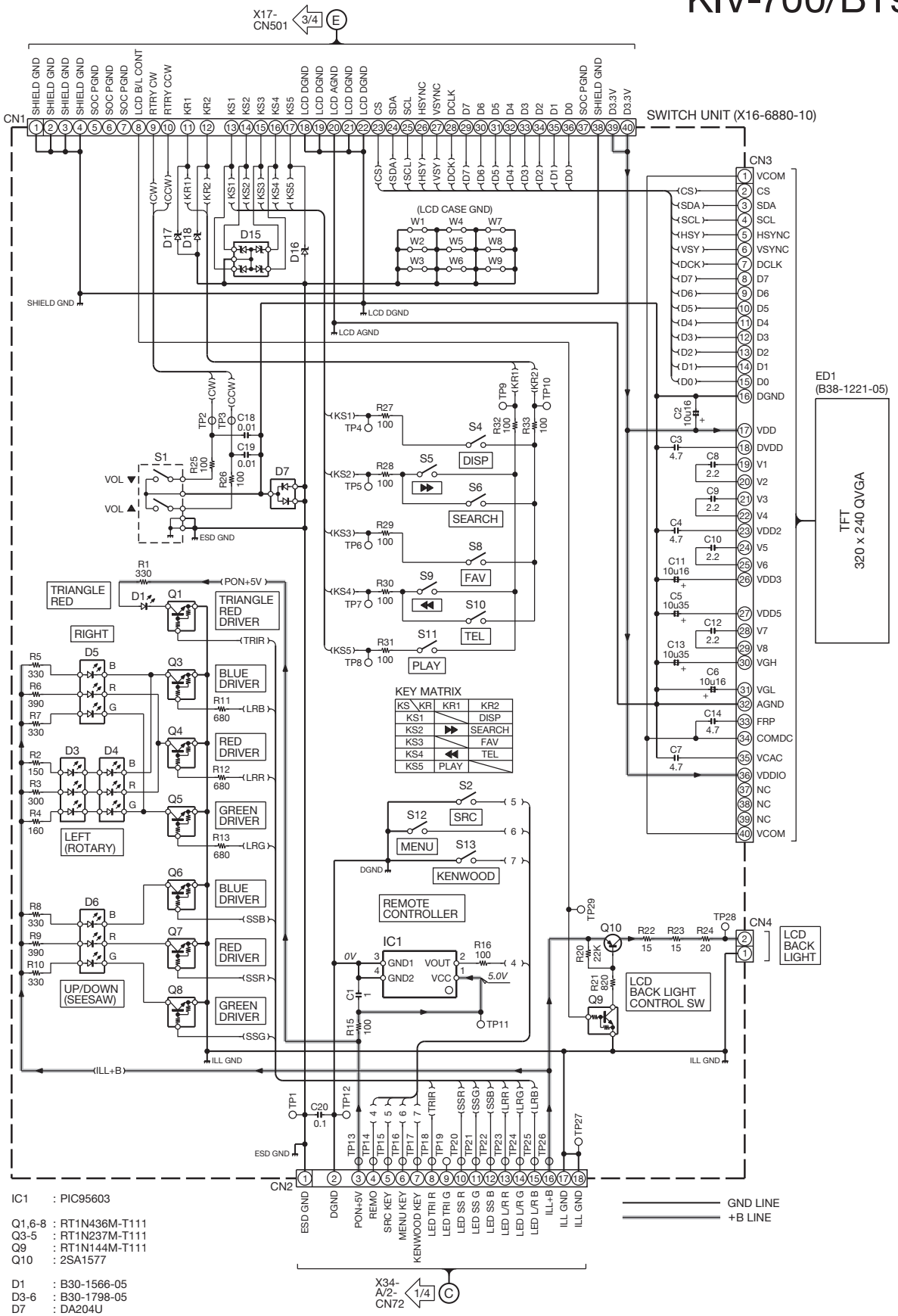
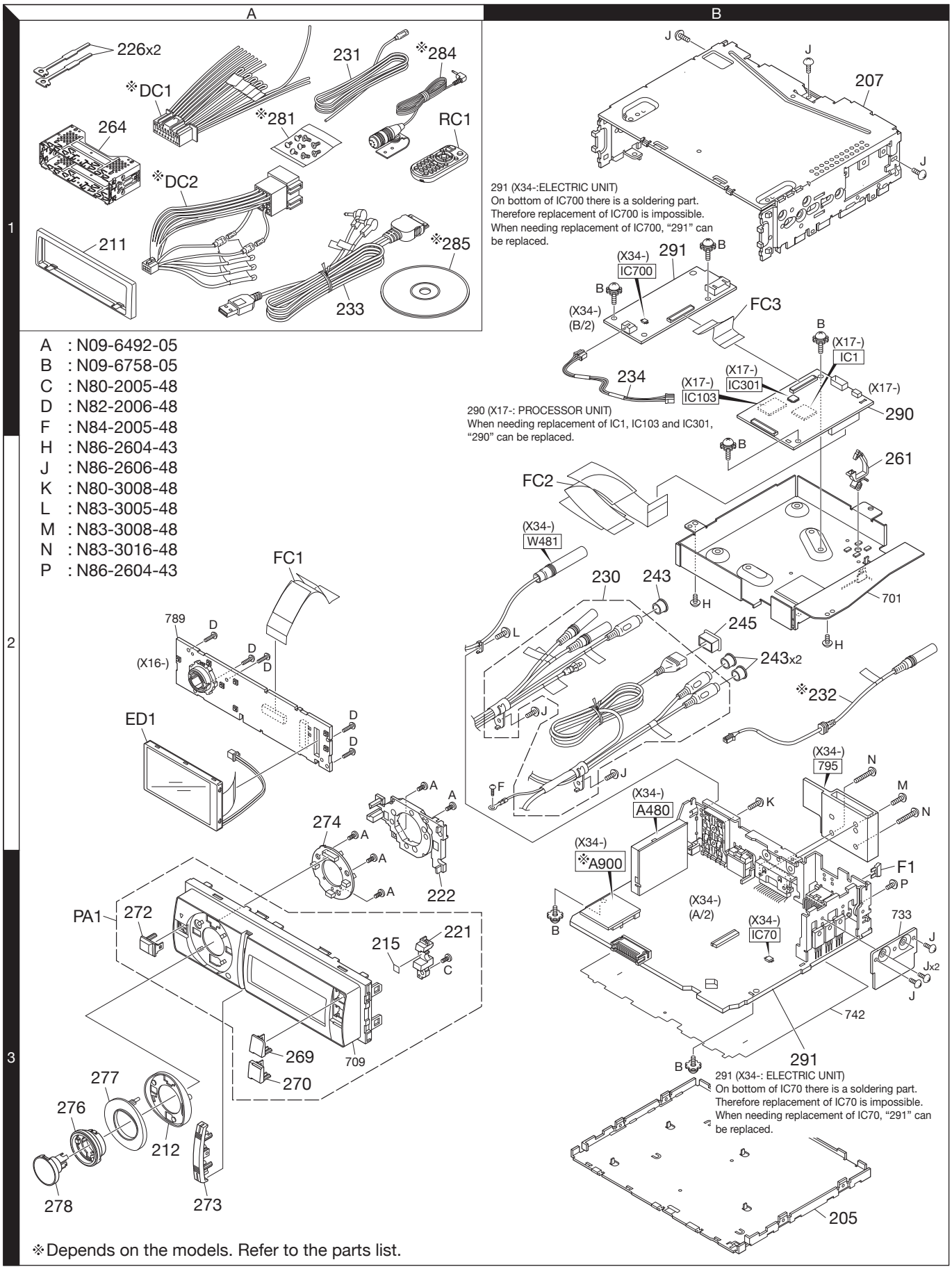


KIV-700/BT900 (4/4)

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



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

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 mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Add	New	Parts No.	Description	Destination
KIV-700/BT900					
205	3B		A40-1362-42	BOTTOM PLATE	
207	1B	✻	A52-1151-01	TOP COVER	
PA1	3A	✻	A64-5139-01	PANEL ASSY	K
PA1	3A	✻	A64-5140-01	PANEL ASSY	K1
PA1	3A	✻	A64-5141-01	PANEL ASSY	E1
PA1	3A	✻	A64-5142-01	PANEL ASSY	M1
RC1	1A		A70-2104-05	REMOTE CONTROLLER ASSY (RC-405)	
-		✻	B59-2016-00	SUB-INST. MANUAL (ENG.FRE.SPA.)	KK1
-		✻	B59-2017-00	SUB-INST. MANUAL (ENG.FRE.)	E1
-		✻	B59-2017-00	SUB-INST. MANUAL (GER.DUT.)	E1
-		✻	B59-2018-00	SUB-INST. MANUAL (ITA.SPA.POR.)	E1
-		✻	B59-2018-00	SUB-INST. MANUAL (RUS.UKR.)	E1
-		✻	B59-2020-00	SUB-INST. MANUAL (ENGLISH)	M1
-		✻	B64-4748-00	INST. MANUAL (ENGLISH)	M1
-		✻	B64-4749-00	INST. MANUAL (S-CHINESE)	M1
-		✻	B64-4750-00	INST. MANUAL (ARABIC)	M1
211	1A		B07-3245-01	ESCUTCHEON	
212	3A		B07-3338-03	ESCUTCHEON (MENU)	
215	3A		B11-2016-04	REFLECTION SHEET	
221	3A		B19-2562-03	LIGHTING BOARD (R)	
222	3A		B19-2563-02	LIGHTING BOARD (L)	
ED1	2A	✻	B38-1221-05	LCD (TFT 320 X 240 QVGA)	
226	1A		D10-7106-04	LEVER	
230	2B	✻	E30-6959-05	CORD WITH CONNECTOR (USB)	
231	1A		E30-6920-05	CONNECTING CORD ASSY (PRK)	
232	2B		E30-6832-05	CORD WITH CONNECTOR (MIC)	K
233	1A	✻	E30-6958-05	CORD WITH CONNECTOR (iPod)	
234	1B	✻	E39-1150-05	WIRING HARNESS	
⚠ DC1	1A		E30-6939-05	DC CORD	KK1M1
⚠ DC2	1A		E30-6940-05	DC CORD	E1
FC1	2A	✻	E39-1151-05	FLAT CABLE (X17-X16)	
FC2	2B	✻	E39-1152-05	FLAT CABLE (X17-X34)	
FC3	1B	✻	E39-1153-05	FLAT CABLE (X17-X34)	
243	2B		F29-0626-04	INSULATING COVER (RCA)	
245	2B		F29-0637-04	INSULATING COVER (USB)	
⚠ F1	3B		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
-		✻	H54-4827-03	ITEM CARTON CASE	K
-		✻	H54-4828-03	ITEM CARTON CASE	K1
-		✻	H54-4829-03	ITEM CARTON CASE	E1
-		✻	H54-4830-03	ITEM CARTON CASE	M1
261	2B		J11-0683-05	WIRE CLAMPER	
264	1A		J22-0789-03	MOUNTING HARDWARE ASSY	
269	3A		K24-5057-13	PUSH KNOB (SEARCH MODE)	
270	3A		K24-5059-03	PUSH KNOB (FAV)	
272	3A		K24-5068-03	PUSH KNOB (SRC)	
273	3A		K25-1988-03	PUSH KNOB (SPEED SEARCH)	
274	2A		K28-0403-13	KNOB BASE (MENU)	
276	3A		K28-0407-14	KNOB ASSY (VOL)	
277	3A		K28-0418-03	KEY TOP (MENU)	
278	3A	✻	K28-0422-14	KNOB ASSY (KENWOOD)	

Ref. No.	Add	New	Parts No.	Description	Destination
281	1A		N99-1757-15	SCREW SET	KK1M1
A	2A		N09-6492-05	TAPTITE SCREW	
B	1B		N09-6758-05	TAPTITE SCREW	
C	3A		N80-2005-48	PAN HEAD TAPTITE SCREW	
D	2A		N82-2006-48	BINDING HEAD TAPTITE SCREW	
F	2B		N84-2005-48	PAN HEAD TAPTITE SCREW	
H	1B		N86-2604-43	BINDING HEAD TAPTITE SCREW	
J	1B		N86-2606-48	BINDING HEAD TAPTITE SCREW	
284	1A		W01-1768-05	MICROPHONE	K
285	1A	✻	W01-1780-05	COMPACT DISC	KK1E1
290	1B	✻	X17-2080-10	PROCESSOR UNIT (for IC1,103,301)	
291	3B	✻	X34-6770-10	ELECTRIC UNIT (for IC70,700)	K
291	3B	✻	X34-6770-11	ELECTRIC UNIT (for IC70,700)	K1
291	3B	✻	X34-6770-21	ELECTRIC UNIT (for IC70,700)	M1
291	3B	✻	X34-6772-71	ELECTRIC UNIT (for IC70,700)	E1

SWITCH UNIT (X16-6880-10)

D1			B30-1566-05	LED (1608,RED)			
D3 -6			B30-1798-05	LED (RGB MPX A,B,C,D)			
C1			CK73GB1A105K	CHIP C	1.0UF	K	
C2			CE32BJ1C100M	CHIP EL	10UF	16WV	
C3 ,4			CK73EB1A475K	CHIP C	4.7UF	K	
C5			CE32BJ1V100M	CHIP EL	10UF	35WV	
C6			CE32BJ1C100M	CHIP EL	10UF	16WV	
C7			CK73EB1A475K	CHIP C	4.7UF	K	
C8 -10			CK73GB1C225K	CHIP C	2.2UF	K	
C11			CE32BJ1C100M	CHIP EL	10UF	16WV	
C12			CK73GB1C225K	CHIP C	2.2UF	K	
C13			CE32BJ1V100M	CHIP EL	10UF	35WV	
C14			CK73EB1A475K	CHIP C	4.7UF	K	
C18 ,19			CK73GB1H103K	CHIP C	0.010UF	K	
C20			CK73GB1H104K	CHIP C	0.10UF	K	
CN1		✻	E41-3192-05	FLAT CABLE CONNECTOR			
CN2		✻	E41-3213-05	PIN ASSY			
CN3		✻	E41-3192-05	FLAT CABLE CONNECTOR			
CN4			E41-2896-05	PIN ASSY			
R1			RK73GB2A331J	CHIP R	330	J	1/10W
R2			RK73EB2E151J	CHIP R	150	J	1/4W
R3			RK73EB2E301J	CHIP R	300	J	1/4W
R4			RK73EB2E161J	CHIP R	160	J	1/4W
R5			RK73EB2E331J	CHIP R	330	J	1/4W
R6			RK73EB2E391J	CHIP R	390	J	1/4W
R7 ,8			RK73EB2E331J	CHIP R	330	J	1/4W
R9			RK73EB2E391J	CHIP R	390	J	1/4W
R10			RK73EB2E331J	CHIP R	330	J	1/4W
R11 -13			RK73GB2A681J	CHIP R	680	J	1/10W
R15 ,16			RK73GB2A101J	CHIP R	100	J	1/10W
R20			RK73GB2A223J	CHIP R	22K	J	1/10W
R21			RK73GB2A821J	CHIP R	820	J	1/10W
R22 ,23			RK73EB2E150J	CHIP R	15	J	1/4W
R24			RK73EB2E200J	CHIP R	20	J	1/4W
R25 -33			RK73GB2A101J	CHIP R	100	J	1/10W
W1 -9			R92-2053-05	CHIP R	0 OHM	J	1/8W

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-6880-10)

Ref. No.	Add	New	Parts No.	Description			Destination
S2			S70-0960-05	TACT SWITCH			
S4 -6			S70-0960-05	TACT SWITCH			
S8 -13			S70-0960-05	TACT SWITCH			
S1			T99-0488-05	ROTARY ENCODER			
D7			DA204U	DIODE			
D15			FTZ6.8E	ZENER DIODE			
D16 -18			UDZW6.8(B)	ZENER DIODE			
IC1			PIC95603	ANALOGUE IC			
Q1			RT1N436M-T111	TRANSISTOR			
Q3 -5			RT1N237M-T111	TRANSISTOR			
Q6 -8			RT1N436M-T111	TRANSISTOR			
Q9			RT1N144M-T111	TRANSISTOR			
Q10			2SA1577	TRANSISTOR			

PROCESSOR UNIT (X17-2080-10)

Ref. No.	Add	New	Parts No.	Description			Destination
C1 ,2			CC73HCH1H100D	CHIP C	10PF	D	
C3 -13			CK73HB1A104K	CHIP C	0.10UF	K	
C14			CK73HB0J105K	CHIP C	1.0UF	K	
C15 -24			CK73HB1A104K	CHIP C	0.10UF	K	
C25 -27			CK73HB0J105K	CHIP C	1.0UF	K	
C30			CK73HB0J105K	CHIP C	1.0UF	K	
C41			CK73HB1E103K	CHIP C	0.010UF	K	
C51			CK73GB1A105K	CHIP C	1.0UF	K	
C61			CK73GB1A105K	CHIP C	1.0UF	K	
C62			CK73FB0J106K	CHIP C	10UF	K	
C71			CK73HB1A104K	CHIP C	0.10UF	K	
C72			CK73FB0J106K	CHIP C	10UF	K	
C73			CC73HCH1H101J	CHIP C	100PF	J	
C100			CK73HB0J105K	CHIP C	1.0UF	K	
C101-107			CK73HB1A104K	CHIP C	0.10UF	K	
C108			CK73HB0J105K	CHIP C	1.0UF	K	
C109-115			CK73HB1A104K	CHIP C	0.10UF	K	
C121			CK73HB1A104K	CHIP C	0.10UF	K	
C142			CK73HB0J105K	CHIP C	1.0UF	K	
C201			CK73FB0J106K	CHIP C	10UF	K	
C202			CK73HB1A104K	CHIP C	0.10UF	K	
C203			CK73FB0J106K	CHIP C	10UF	K	
C205			CK73HB1H102K	CHIP C	1000PF	K	
C215,216			CK73HB1H222K	CHIP C	2200PF	K	
C301			CK73GB1H104K	CHIP C	0.10UF	K	
C302			CK73FB0J106K	CHIP C	10UF	K	
C303			CK73HB1A104K	CHIP C	0.10UF	K	
C304			CK73FB0J106K	CHIP C	10UF	K	
C305			CK73GB1H104K	CHIP C	0.10UF	K	
C306			CK73FB0J106K	CHIP C	10UF	K	
C307			CK73HB1A104K	CHIP C	0.10UF	K	
C308			CK73FB0J106K	CHIP C	10UF	K	
C309			CK73HB1A104K	CHIP C	0.10UF	K	
C310			CK73HB1E103K	CHIP C	0.010UF	K	
C311			CK73GB1H333K	CHIP C	0.033UF	K	
C312,313			CK73HB1A104K	CHIP C	0.10UF	K	
C314-316			CK73HB1E103K	CHIP C	0.010UF	K	
C317,318			CC73HCH1H060D	CHIP C	6.0PF	D	
C319			CC73GCH1H221J	CHIP C	220PF	J	
C401			CK73GB1H104K	CHIP C	0.10UF	K	
C411,412			CK73HB1A104K	CHIP C	0.10UF	K	
C413			CE32BN0J221M	CHIP EL	220UF	6.3WV	
C421			CK73HB1A104K	CHIP C	0.10UF	K	
C501			CK73HB1C333K	CHIP C	0.033UF	K	
CN201			E41-2264-05	PIN ASSY			
CN501,502		✻	E41-3192-05	FLAT CABLE CONNECTOR			
CN503		✻	E41-3207-05	FLAT CABLE CONNECTOR			
L25 -30			L92-0615-05	CHIP FERRITE			
L501-509			L92-0838-05	CHIP FERRITE			
X1			L77-2908-05	CRYSTAL RESONATOR (12.000MHZ)			
X301			L77-2916-05	CRYSTAL RESONATOR (24.576MHZ)			
CP3 -6			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP7			RK74HB1J100J	CHIP-COM	10	J 1/16W	
CP9 -12			RK74HB1J100J	CHIP-COM	10	J 1/16W	
CP13-20			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP21,22			RK74HB1J473J	CHIP-COM	47K	J 1/16W	
CP23			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP24			RK74HB1J331J	CHIP-COM	330	J 1/16W	
CP28			RK74HB1J223J	CHIP-COM	22K	J 1/16W	
CP51-57			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP60,61			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP63-69			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP71,72			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP86-89			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP90			RK74HB1J223J	CHIP-COM	22K	J 1/16W	
CP102,103			RK74HB1J223J	CHIP-COM	22K	J 1/16W	
CP301,302			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP601,602			RK74HB1J223J	CHIP-COM	22K	J 1/16W	
CP603			RK74HB1J220J	CHIP-COM	22	J 1/16W	
CP605			RK74HB1J220J	CHIP-COM	22	J 1/16W	
R1			RK73HB1J102J	CHIP R	1.0K	J 1/16W	
R2			RK73GB2A515J	CHIP R	5.1M	J 1/10W	
R7			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R11			RK73HB1J100J	CHIP R	10	J 1/16W	
R12 -15			RK73HB1J220J	CHIP R	22	J 1/16W	
R16			RK73HB1J100J	CHIP R	10	J 1/16W	
R37			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R52			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R61 ,62			RK73PB2H2R2J	CHIP R	2.2	J 1/2W	
R91			RK73HB1J223J	CHIP R	22K	J 1/16W	
R92			RK73HB1J102J	CHIP R	1.0K	J 1/16W	
R102			RK73HB1J223J	CHIP R	22K	J 1/16W	
R103-107			RK73HB1J220J	CHIP R	22	J 1/16W	
R108			RK73HB1J223J	CHIP R	22K	J 1/16W	
R109			RK73HB1J473J	CHIP R	47K	J 1/16W	
R111-113			RK73HB1J220J	CHIP R	22	J 1/16W	
R115-117			RK73HB1J220J	CHIP R	22	J 1/16W	
R202,203			RK73HB1J101J	CHIP R	100	J 1/16W	
R205			RK73HB1J101J	CHIP R	100	J 1/16W	
R209			RK73HB1J100J	CHIP R	10	J 1/16W	
R211,212			RK73HB1J471J	CHIP R	470	J 1/16W	
R213,214			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R217-220			RK73HB1J510J	CHIP R	51	J 1/16W	
R301			RK73GB2A300J	CHIP R	30	J 1/10W	

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
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PARTS LIST

PROCESSOR UNIT (X17-2080-10)

Ref. No.	Add	New	Parts No.	Description			Destination
R302,303			RK73HB1J220J	CHIP R	22	J 1/16W	
R304-306			RK73HB1J101J	CHIP R	100	J 1/16W	
R307			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R308			RK73GH2A682D	CHIP R	6.8K	D 1/10W	
R309-313			RK73HB1J223J	CHIP R	22K	J 1/16W	
R314,315			RK73HB1J101J	CHIP R	100	J 1/16W	
R316			RK73HB1J102J	CHIP R	1.0K	J 1/16W	
R331,332			RK73HB1J220J	CHIP R	22	J 1/16W	
R341			RK73GB2A470J	CHIP R	47	J 1/10W	
R342,343			RK73HB1J220J	CHIP R	22	J 1/16W	
R401,402			RK73HB1J270J	CHIP R	27	J 1/16W	
R411			RK73HB1J223J	CHIP R	22K	J 1/16W	
R412			RK73HB1J101J	CHIP R	100	J 1/16W	
R413			RK73HB1J223J	CHIP R	22K	J 1/16W	
R414			RK73GH2A430D	CHIP R	43	D 1/10W	
R415			RK73HB1J223J	CHIP R	22K	J 1/16W	
R416		✻	RK73GB2A1R2J	CHIP R	1.2	J 1/10W	
R419			RK73HB1J101J	CHIP R	100	J 1/16W	
R421,422			RK73HB1J223J	CHIP R	22K	J 1/16W	
R427,428			RK73HB1J101J	CHIP R	100	J 1/16W	
R429,430			RK73HB1J332J	CHIP R	3.3K	J 1/16W	
R501			RK73HB1J560J	CHIP R	56	J 1/16W	
R503			RK73HB1J000J	CHIP R	0.0	J 1/16W	
R504-506			RK73HB1J332J	CHIP R	3.3K	J 1/16W	
R507,508			RK73HB1J392J	CHIP R	3.9K	J 1/16W	
R509-512			RK73HB1J560J	CHIP R	56	J 1/16W	
R513-521			RK73HB1J470J	CHIP R	47	J 1/16W	
R522			RK73HB1J220J	CHIP R	22	J 1/16W	
R523-534			RK73HB1J223J	CHIP R	22K	J 1/16W	
R535,536			RK73HB1J332J	CHIP R	3.3K	J 1/16W	
R537,538			RK73HB1J102J	CHIP R	1.0K	J 1/16W	
R539			RK73HB1J331J	CHIP R	330	J 1/16W	
D401,402			LVS10C270S030	VARISTOR			
IC1	1B		Impossible to replace	MOS-IC (See exploded view)			
IC51			XC6209B502P1	ANALOGUE IC			
IC61		✻	XC6219F132P1	ANALOGUE IC			
IC71			S-1132B18U5T1G	ANALOGUE IC			
IC100,101		✻	M12L1281685TT	DRAM IC			
IC103	1B		No stock	ROM IC (See exploded view)			
IC201			PCM1754DB	MOS-IC			
IC301	1B		Impossible to replace	MOS-IC (See exploded view)			
IC401			BD6538G	MOS-IC			
IC402			MFI341S2162	MICROPROCESSOR IC			
Q91			2SA1576A	TRANSISTOR			
Q92			DTC114YUA	DIGITAL TRANSISTOR			
Q501,502			DTC124EUA	DIGITAL TRANSISTOR			

ELECTRIC UNIT (X34-677x-xx)

C2			CD04AZ1C332M2	ELECTRO	3300UF	16WV	
C10			CD04AY1A221M	ELECTRO	220UF	10WV	
C12			CK73GB1A105K	CHIP C	1.0UF	K	
C20 ,21			CK73GB1A105K	CHIP C	1.0UF	K	
C30			CD04AJ1C101M	ELECTRO	100UF	16WV	
C31			CK73FB0J106K	CHIP C	10UF	K	
C33			C90-6851-05	ELECTRO	220UF	25WV	
C41			CD04AZ1C332M2	ELECTRO	3300UF	16WV	
C50			CD04AS1C220M	ELECTRO	22UF	16WV	
C71			CK73FB0J106K	CHIP C	10UF	K	
C72			CK73GB1A474K	CHIP C	0.47UF	K	
C73			CK73EB1H475K	CHIP C	4.7UF	K	
C74			CK73GB1H102K	CHIP C	1000PF	K	
C75 ,76			CK73GB1H104K	CHIP C	0.10UF	K	
C79			CK73GB1H103K	CHIP C	0.010UF	K	
C81 ,82			CK73GB1H102K	CHIP C	1000PF	K	
C83			CD04AS1V100M	ELECTRO	10UF	35WV	
C84			CD04AS1C220M	ELECTRO	22UF	16WV	
C92			CK73GB1H103K	CHIP C	0.010UF	K	
C110			CK73GB1H104K	CHIP C	0.10UF	K	
C111			CK73GB1A105K	CHIP C	1.0UF	K	
C112			CK73FB1A335K	CHIP C	3.3UF	K	
C131			CK73GB1A105K	CHIP C	1.0UF	K	
C132			CK73GB1H223K	CHIP C	0.022UF	K	
C133			CK73GB1H103K	CHIP C	0.010UF	K	
C170,171			CK73GB1H103K	CHIP C	0.010UF	K	K
C204			CK73GB1A105K	CHIP C	1.0UF	K	
C206			CD04BA1E330M	ELECTRO	33UF	25WV	
C208			CK73GB1C224K	CHIP C	0.22UF	K	
C210			CK73GB1C224K	CHIP C	0.22UF	K	
C212			CK73GB1C224K	CHIP C	0.22UF	K	
C214			CK73GB1C224K	CHIP C	0.22UF	K	
C217			CK73FB1C105K	CHIP C	1.0UF	K	
C222			CK73GB1A105K	CHIP C	1.0UF	K	
C240,241			CK73GB1A105K	CHIP C	1.0UF	K	
C242-247			CK73GB1H103K	CHIP C	0.010UF	K	
C249			CK73GB0J225K	CHIP C	2.2UF	K	
C250			CD04AS1V100M	ELECTRO	10UF	35WV	
C251			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C253-256			CK73GB1H103K	CHIP C	0.010UF	K	
C257			CC73GCH1H120J	CHIP C	12PF	J	
C259			CC73GCH1H120J	CHIP C	12PF	J	
C260			CK73GB1A105K	CHIP C	1.0UF	K	
C261			CK73GB1A474K	CHIP C	0.47UF	K	
C262			CK73GB1A105K	CHIP C	1.0UF	K	
C263			CK73GB1A474K	CHIP C	0.47UF	K	
C264-266			CK73GB1A105K	CHIP C	1.0UF	K	
C271,272			CK73GB1A105K	CHIP C	1.0UF	K	
C276			CD04AS1H2R2M	ELECTRO	2.2UF	50WV	
C277			CK73GB1H103K	CHIP C	0.010UF	K	
C280-285			CK73GB1A105K	CHIP C	1.0UF	K	
C286			CD04AS1C470M	ELECTRO	47UF	16WV	
C288,289			CK73GB1A105K	CHIP C	1.0UF	K	
C300			CK73GB1H104K	CHIP C	0.10UF	K	
C302,303			CC73GCH1H220J	CHIP C	22PF	J	
C304-306			CK73GB1H103K	CHIP C	0.010UF	K	
C307			CK73GB1H102K	CHIP C	1000PF	K	
C310			CK73GB1H103K	CHIP C	0.010UF	K	
C314,315			CK73GB1H103K	CHIP C	0.010UF	K	
C316			CK73GB1H104K	CHIP C	0.10UF	K	
C335			CK73GB1H104K	CHIP C	0.10UF	K	
C336,337			CK73GB0J475K	CHIP C	4.7UF	K	

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-677x-xx)

Ref. No.	Add	New	Parts No.	Description			Destination
C400			CK73FB1E474K	CHIP C	0.47UF	K	
C401			CD04AT0J470M	ELECTRO	47UF	6.3WV	
C402			CK73FB1E474K	CHIP C	0.47UF	K	
C404			CK73GB1H103K	CHIP C	0.010UF	K	
C440			CD04AS1V100M	ELECTRO	10UF	35WV	
C443			CD04AS1V100M	ELECTRO	10UF	35WV	
C450			CD04AS1V100M	ELECTRO	10UF	35WV	
C453			CD04AS1V100M	ELECTRO	10UF	35WV	
C460			CD04AS1V100M	ELECTRO	10UF	35WV	
C463			CD04AS1V100M	ELECTRO	10UF	35WV	
C470,471			CK73GB1A105K	CHIP C	1.0UF	K	
C472			CD04AS0J470M	ELECTRO	47UF	6.3WV	
C482-485			CK73GB1H103K	CHIP C	0.010UF	K	
C502			CK73GB0J225K	CHIP C	2.2UF	K	KK1E1
C503			CC73GCH1H271J	CHIP C	270PF	J	KK1E1
C505			CK73GB1H103K	CHIP C	0.010UF	K	KK1E1
C506,507			CC73GCH1H120J	CHIP C	12PF	J	KK1E1
C551,552			CK73GB1H103K	CHIP C	0.010UF	K	
C604			CK73GB1H104K	CHIP C	0.10UF	K	K
C606			CK73FB0J106K	CHIP C	10UF	K	K
C607,608			CC73GCH1H101J	CHIP C	100PF	J	K
C610-612			CK73GB1H104K	CHIP C	0.10UF	K	K
C613			CK73FB0J106K	CHIP C	10UF	K	K
C616			CK73GB1H104K	CHIP C	0.10UF	K	K
C631			CD04BK0J331M	ELECTRO	330UF	6.3WV	K
C701			CK73GB1H104K	CHIP C	0.10UF	K	
C702			CK73EB1H475K	CHIP C	4.7UF	K	
C703			CK73GB1H104K	CHIP C	0.10UF	K	
C704			CK73GB1A474K	CHIP C	0.47UF	K	
C705			CK73FB0J106K	CHIP C	10UF	K	
C706,707			CK73GB1H102K	CHIP C	1000PF	K	
C708			CD04AS1C220M	ELECTRO	22UF	16WV	
C709			CK73GB1H104K	CHIP C	0.10UF	K	
C710			CD04AS1C220M	ELECTRO	22UF	16WV	
C711			CK73GB1H104K	CHIP C	0.10UF	K	
C712			CD04AS1C220M	ELECTRO	22UF	16WV	
C713			CK73GB1H104K	CHIP C	0.10UF	K	
C714			CD04AS1C220M	ELECTRO	22UF	16WV	
C715-719			CK73GB1A105K	CHIP C	1.0UF	K	
C721-725			CK73GB1A105K	CHIP C	1.0UF	K	
C726			CD04AS1C220M	ELECTRO	22UF	16WV	
C727			CK73GB1H103K	CHIP C	0.010UF	K	
C729			CK73GB1H103K	CHIP C	0.010UF	K	
C730			CK73GB1A105K	CHIP C	1.0UF	K	
C731			CK73GB1H103K	CHIP C	0.010UF	K	
C733			CK73GB1H103K	CHIP C	0.010UF	K	
C735-738			CK73EB1A106K	CHIP C	10UF	K	
C739			CD04AS1C220M	ELECTRO	22UF	16WV	
C740			CD04AS1C101M	ELECTRO	100UF	16WV	
C743,744			CK73GB1A105K	CHIP C	1.0UF	K	
C747			CK73GB1A105K	CHIP C	1.0UF	K	
C749			CK73GB1A105K	CHIP C	1.0UF	K	
C751			CK73GB1A105K	CHIP C	1.0UF	K	
C753			CK73GB1A105K	CHIP C	1.0UF	K	
C754			CC73GCH1H101J	CHIP C	100PF	J	

Ref. No.	Add	New	Parts No.	Description				Destination
C755			CK73FB1C105K	CHIP C	1.0UF	K		
C768			CC73GCH1H100D	CHIP C	10PF	D		
C770			CK73GB1H103K	CHIP C	0.010UF	K		
C771			CK73GB1A105K	CHIP C	1.0UF	K		
CN5			E41-1700-05	PIN ASSY				
CN6		✻	E41-3192-05	FLAT CABLE CONNECTOR				
CN72			E40-9747-05	PIN ASSY				
CN602			E41-1699-05	PIN ASSY				K
CN701		✻	E41-3192-05	FLAT CABLE CONNECTOR				
CN702		✻	E41-2872-05	PIN ASSY				
CN705			E41-1700-05	PIN ASSY				
CN900			E41-3043-05	PIN ASSY				K
⚠ J1			E58-0991-05	RECTANGULAR RECEPTACLE				
J400			E56-0855-05	CYLINDRICAL RECEPTACLE				
J420			E63-0972-05	PIN JACK				
J470			E11-0625-05	PHONE JACK				
W481	2B		E30-6438-05	CORD WITH PLUG				
F41			F53-0367-05	FUSE				
⚠ L1			L33-2436-05	CHOKE COIL ASSY				
L70			L33-2462-05	SMALL FIXED INDUCTOR				
L71			L92-0639-05	CHIP FERRITE				
L73			L92-0639-05	CHIP FERRITE				
L600			L92-0662-05	CHIP FERRITE				K
L700			L92-0639-05	CHIP FERRITE				
L701			L33-2462-05	SMALL FIXED INDUCTOR				
L704			L92-0639-05	CHIP FERRITE				
X240			L77-3810-05	CRYSTAL RESONATOR (11.2896MHZ)				
X300			L78-0872-05	RESONATOR (12MHZ)				
X301			L77-2921-15	CRYSTAL RESONATOR (32.768KHZ)				
X500			L77-3825-05	CRYSTAL RESONATOR (4.332MHZ)				KK1E1
K	2B		N80-3008-48	PAN HEAD TAPTITE SCREW				
L	2B		N83-3005-48	PAN HEAD TAPTITE SCREW				
M	2B		N83-3008-48	PAN HEAD TAPTITE SCREW				
N	2B		N83-3016-48	PAN HEAD TAPTITE SCREW				
P	3B		N86-2604-43	BINDING HEAD TAPTITE SCREW				
CP301-303			RK74HB1J101J	CHIP-COM	100	J	1/16W	
CP304			RK74GA1J101J	CHIP-COM	100	J	1/16W	K
CP306			RK74GA1J472J	CHIP-COM	4.7K	J	1/16W	
CP501			RK74HB1J222J	CHIP-COM	2.2K	J	1/16W	KK1E1
R1 ,2			RK73EB2E103J	CHIP R	10K	J	1/4W	
R10			RK73GH2A243D	CHIP R	24K	D	1/10W	
R11			RK73GH2A432D	CHIP R	4.3K	D	1/10W	
R12			RK73FB2B221J	CHIP R	220	J	1/8W	
R22			RK73GB2A1R0J	CHIP R	1.0	J	1/10W	
R33			RK73FB2B123J	CHIP R	12K	J	1/8W	
R52			RK73FB2B272J	CHIP R	2.7K	J	1/8W	
R71			RK73GH2A133D	CHIP R	13K	D	1/10W	
R72			RK73GH2A823D	CHIP R	82K	D	1/10W	
R73			RK73GB2A103J	CHIP R	10K	J	1/10W	
R74			RK73GH2A153D	CHIP R	15K	D	1/10W	
R83			RK73GB2A362J	CHIP R	3.6K	J	1/10W	
R84			RK73GB2A432J	CHIP R	4.3K	J	1/10W	
R85			RK73GB2A562J	CHIP R	5.6K	J	1/10W	

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-677x-xx)

Ref. No.	Add	New	Parts No.	Description			Destination
R86			RK73GB2A2R2J	CHIP R	2.2	J 1/10W	
R87			RK73FB2B102J	CHIP R	1.0K	J 1/8W	
R90 ,91			RK73GB2A103J	CHIP R	10K	J 1/10W	
R96			RK73GB2A183J	CHIP R	18K	J 1/10W	
R97			RK73GB2A104J	CHIP R	100K	J 1/10W	
R98			RK73FB2B203J	CHIP R	20K	J 1/8W	
R99			RK73EB2E473J	CHIP R	47K	J 1/4W	
R100			RK73FB2B683J	CHIP R	68K	J 1/8W	
R101			RK73GB2A473J	CHIP R	47K	J 1/10W	
R102-104			RK73EB2E102J	CHIP R	1.0K	J 1/4W	
R110,111			RK73PB2H561J	CHIP R	560	J 1/2W	
R112			RK73GB2A223J	CHIP R	22K	J 1/10W	
R113,114			RK73PB2H561J	CHIP R	560	J 1/2W	
R115			RK73FB2B472J	CHIP R	4.7K	J 1/8W	
R116			RK73GB2A223J	CHIP R	22K	J 1/10W	KK1M1
R117			RK73GB2A000J	CHIP R	0.0	J 1/10W	E1
R118,119			RK73PB2H221J	CHIP R	220	J 1/2W	KK1M1
R120			RK73FB2B472J	CHIP R	4.7K	J 1/8W	
R130,131			RK73GB2A104J	CHIP R	100K	J 1/10W	
R132			RK73GB2A473J	CHIP R	47K	J 1/10W	
R160			RK73EB2E471J	CHIP R	470	J 1/4W	
R201			RK73GB2A333J	CHIP R	33K	J 1/10W	
R202			RK73GB2A000J	CHIP R	0.0	J 1/10W	
R208			RK73GB2A100JH	CHIP R	10	J 1/10W	
R209			RK73GB2A432J	CHIP R	4.3K	J 1/10W	
R210			RK73GB2A221J	CHIP R	220	J 1/10W	
R212			RK73GB2A223J	CHIP R	22K	J 1/10W	
R213			RK73GB2A133J	CHIP R	13K	J 1/10W	
R242-247			RK73GB2A101JH	CHIP R	100	J 1/10W	
R248			RK73GB2A152J	CHIP R	1.5K	J 1/10W	
R249			RK73EB2E2R2J	CHIP R	2.2	J 1/4W	
R260			RK73GB2A103J	CHIP R	10K	J 1/10W	
R300			RK73GB2A225J	CHIP R	2.2M	J 1/10W	
R302			RK73GB2A103J	CHIP R	10K	J 1/10W	
R303,304			RK73GB2A104J	CHIP R	100K	J 1/10W	
R306			RK73GB2A473J	CHIP R	47K	J 1/10W	
R308,309			RK73GB2A473J	CHIP R	47K	J 1/10W	
R312			RK73GB2A101J	CHIP R	100	J 1/10W	
R313			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R314			RK73GB2A223J	CHIP R	22K	J 1/10W	E1
R315			RK73GB2A222J	CHIP R	2.2K	J 1/10W	
R317			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R318			RK73GB2A473J	CHIP R	47K	J 1/10W	
R319			RK73GB2A104J	CHIP R	100K	J 1/10W	
R320			RK73GB2A333J	CHIP R	33K	J 1/10W	
R321			RK73GB2A473J	CHIP R	47K	J 1/10W	
R323			RK73GB2A473J	CHIP R	47K	J 1/10W	
R324			RK73GB2A472J	CHIP R	4.7K	J 1/10W	
R325			RK73GB2A104J	CHIP R	100K	J 1/10W	
R326			RK73GB2A472J	CHIP R	4.7K	J 1/10W	
R327,328			RK73GB2A104J	CHIP R	100K	J 1/10W	
R330			RK73GB2A104J	CHIP R	100K	J 1/10W	
R331			RK73GB2A222J	CHIP R	2.2K	J 1/10W	KK1M1
R331,332			RK73GB2A222J	CHIP R	2.2K	J 1/10W	E1
R333			RK73GB2A104J	CHIP R	100K	J 1/10W	

Ref. No.	Add	New	Parts No.	Description			Destination
R335			RK73GB2A184J	CHIP R	180K	J 1/10W	
R336			RK73GB2A471J	CHIP R	470	J 1/10W	
R337			RK73GB2A225J	CHIP R	2.2M	J 1/10W	
R338			RK73GB2A184J	CHIP R	180K	J 1/10W	
R340			RK73GB2A473J	CHIP R	47K	J 1/10W	
R341			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R352			RK73GB2A223J	CHIP R	22K	J 1/10W	KK1E1
R353,354			RK73GB2A223J	CHIP R	22K	J 1/10W	M1
R354			RK73GB2A223J	CHIP R	22K	J 1/10W	KK1
R355			RK73GB2A223J	CHIP R	22K	J 1/10W	E1
R356			RK73GB2A223J	CHIP R	22K	J 1/10W	K
R357			RK73GB2A223J	CHIP R	22K	J 1/10W	K1E1M1
R358,359			RK73GB2A104J	CHIP R	100K	J 1/10W	
R360			RK73GB2A223J	CHIP R	22K	J 1/10W	
R361			RK73GB2A104J	CHIP R	100K	J 1/10W	
R362			RK73GB2A473J	CHIP R	47K	J 1/10W	
R363			RK73GB2A101J	CHIP R	100	J 1/10W	
R364,365			RK73GB2A103J	CHIP R	10K	J 1/10W	
R366			RK73GB2A473J	CHIP R	47K	J 1/10W	
R400-404			RK73EB2E432J	CHIP R	4.3K	J 1/4W	
R405			RK73EB2E101J	CHIP R	100	J 1/4W	
R406			RK73EB2E100J	CHIP R	10	J 1/4W	
R407			RK73EB2E4R7J	CHIP R	4.7	J 1/4W	
R408			RK73EB2E100J	CHIP R	10	J 1/4W	
R409			RK73EB2E432J	CHIP R	4.3K	J 1/4W	
R410			RK73EB2E101J	CHIP R	100	J 1/4W	
R440			RK73FB2B181J	CHIP R	180	J 1/8W	
R441			RK73GB2A331J	CHIP R	330	J 1/10W	
R442,443			RK73GB2A223J	CHIP R	22K	J 1/10W	
R444			RK73FB2B181J	CHIP R	180	J 1/8W	
R445			RK73GB2A331J	CHIP R	330	J 1/10W	
R450			RK73FB2B181J	CHIP R	180	J 1/8W	
R451			RK73GB2A331J	CHIP R	330	J 1/10W	
R452,453			RK73GB2A223J	CHIP R	22K	J 1/10W	
R454			RK73FB2B181J	CHIP R	180	J 1/8W	
R455			RK73GB2A331J	CHIP R	330	J 1/10W	
R460			RK73FB2B181J	CHIP R	180	J 1/8W	
R461			RK73GB2A331J	CHIP R	330	J 1/10W	
R462,463			RK73GB2A223J	CHIP R	22K	J 1/10W	
R464			RK73FB2B181J	CHIP R	180	J 1/8W	
R465			RK73GB2A331J	CHIP R	330	J 1/10W	
R470			RK73EB2E101J	CHIP R	100	J 1/4W	
R471			RK73GB2A123J	CHIP R	12K	J 1/10W	
R472			RK73EB2E101J	CHIP R	100	J 1/4W	
R473			RK73GB2A123J	CHIP R	12K	J 1/10W	
R474			RK73EB2E470J	CHIP R	47	J 1/4W	
R475			RK73GB2A102J	CHIP R	1.0K	J 1/10W	
R480,481			RK73GB2A471J	CHIP R	470	J 1/10W	
R482			RK73FB2B821J	CHIP R	820	J 1/8W	
R483			RK73GB2A223J	CHIP R	22K	J 1/10W	
R505			RK73GB2A102J	CHIP R	1.0K	J 1/10W	KK1E1
R507-509			RK73GB2A000J	CHIP R	0.0	J 1/10W	
R521-523			RK73EB2E102J	CHIP R	1.0K	J 1/4W	
R551,552			RK73GB2A473J	CHIP R	47K	J 1/10W	
R553,554			RK73GB2A104J	CHIP R	100K	J 1/10W	

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-677x-xx)

Ref. No.	Add	New	Parts No.	Description			Destination
R603			RK73GB2A2R2J	CHIP R 2.2	J	1/10W	K
R606,607			RK73GB2A103J	CHIP R 10K	J	1/10W	K
R610,611			RK73GB2A473J	CHIP R 47K	J	1/10W	K
R612,613			RK73GB2A223J	CHIP R 22K	J	1/10W	K
R614			RK73GB2A473J	CHIP R 47K	J	1/10W	K
R617			RK73GB2A473J	CHIP R 47K	J	1/10W	K
R620			RK73GB2A472J	CHIP R 4.7K	J	1/10W	K
R633,634			RK73GB2A331J	CHIP R 330	J	1/10W	K
R635,636			RK73EB2E101J	CHIP R 100	J	1/4W	K
R701			RK73GB2A333J	CHIP R 33K	J	1/10W	
R702			RK73GB2A473J	CHIP R 47K	J	1/10W	
R704			RK73GB2A123J	CHIP R 12K	J	1/10W	
R705			RK73GH2A103D	CHIP R 10K	D	1/10W	
R706,707			RK73GH2A333D	CHIP R 33K	D	1/10W	
R709			RK73GH2A473D	CHIP R 47K	D	1/10W	
R712,713			RK73GB2A331J	CHIP R 330	J	1/10W	
R714,715			RK73GB2A223J	CHIP R 22K	J	1/10W	
R716,717			RK73FB2B181J	CHIP R 180	J	1/8W	
R718			RK73EB2E750J	CHIP R 75	J	1/4W	
R719			RK73GB2A750J	CHIP R 75	J	1/10W	
R720,721			RK73GB2A221J	CHIP R 220	J	1/10W	
R722,723			RK73GB2A101J	CHIP R 100	J	1/10W	
R726			RK73EB2E750J	CHIP R 75	J	1/4W	
R728,729			RK73EB2E101J	CHIP R 100	J	1/4W	
R730			RK73EB2E470J	CHIP R 47	J	1/4W	
R731,732		✻	RK73GB2A123JH	CHIP R 12K	J	1/10W	
R733			RK73GB2A473J	CHIP R 47K	J	1/10W	
R734			RK73EB2E103J	CHIP R 10K	J	1/4W	
R735			RK73GB2A104J	CHIP R 100K	J	1/10W	
D1			S2V60-5009F46	DIODE			
D30			UDZW5.6(B)	ZENER DIODE			
D31			D1FJ4	DIODE			
D41			1SR154-400	DIODE			
D51			1SS355	DIODE			
D52			UDZW10(B)	ZENER DIODE			
D70			CMS14	DIODE			
D80			1SR154-400	DIODE			
D82			RKZ5.6KG(B2)	ZENER DIODE			
D90			RKZ6.2KG(B2)	ZENER DIODE			
D92 ,93			RKZ6.8KG(B2)	ZENER DIODE			
D110			HSU119TRF-E	DIODE			
D111-114			1SR154-400	DIODE			
D130			RKZ4.7KG(B2)	ZENER DIODE			
D200			MC2846-T111	DIODE			
D201			HSU119TRF-E	DIODE			
D263-265			MC2846-T111	DIODE			
D269			RKZ6.8KG(B2)	ZENER DIODE			
D301,302			MC2846-T111	DIODE			
D351			HSU119TRF-E	DIODE			
D400,401			RKZ6.2KG(B2)	ZENER DIODE			
D403,404			RKZ6.2KG(B2)	ZENER DIODE			
D406			RKZ6.2KG(B2)	ZENER DIODE			
D408-410			RKZ6.8KG(B2)	ZENER DIODE			
D441			MC2846-T111	DIODE			

Ref. No.	Add	New	Parts No.	Description	Destination
D461			MC2846-T111	DIODE	
D470,471			RKZ6.8KG(B2)	ZENER DIODE	
D472			UDZW6.8(B)	ZENER DIODE	
D532			DA204U	DIODE	K
D701			CMS14	DIODE	
D702			DAN202U	DIODE	
D703			UDZW16(B)	ZENER DIODE	
D705-707			UDZW6.8(B)	ZENER DIODE	
IC10			M5237ML-CF0J	ANALOGUE IC	
IC20			XC6201P502PR	ANALOGUE IC	
IC70	3B		Impossible to replace	ANALOGUE IC (See exploded view)	
IC170			74AHC1G08GW	MOS-IC	K
IC171			74AHCT1G08GW	MOS-IC	K
IC201			E-TDA7850A	ANALOGUE IC	
IC240			AK7600VF	MOS-IC	
IC300			M24C08-RDW6TP	ROM IC	E1M1
IC300			M24256BRDW6TP	ROM IC	KK1
IC301			XC6120N362N1	MOS-IC	
IC302		✻	W05-1616-00	MICROCONTROLLER IC	K
IC302		✻	W05-1617-00	MICROCONTROLLER IC	K1E1M1
IC303			74HC2G02DP	MOS-IC	
IC304			HD74HC27FP-E	MOS-IC	
IC451			E-TDA7716	ANALOGUE IC	
IC500			E-TDA7478AD	ANALOGUE IC	KK1E1
IC551			TC7WH126FU-F	MOS-IC	
IC552			TC7WT126FU-F	MOS-IC	
IC600			NJM4565V-ZB	ANALOGUE IC	K
IC700	1B		Impossible to replace	ANALOGUE IC (See exploded view)	
IC701		✻	BH7649KS2	ANALOGUE IC	
Q10			DTA124EUA	DIGITAL TRANSISTOR	
Q11			DTC124EUA	DIGITAL TRANSISTOR	
Q12			KTA1046-P	TRANSISTOR	
Q32			2SC4081	TRANSISTOR	
Q33			KTA1046-P	TRANSISTOR	
Q50			2SC4081	TRANSISTOR	
Q51			KTA1046-P	TRANSISTOR	
Q52			DTA124EUA	DIGITAL TRANSISTOR	
Q53			DTC124EUA	DIGITAL TRANSISTOR	
Q80			2SC4081	TRANSISTOR	
Q81			2SC5053	TRANSISTOR	
Q82			DTA124EUA	DIGITAL TRANSISTOR	
Q83			RT1N241M-T111	TRANSISTOR	
Q90			2SC4081	TRANSISTOR	
Q92 ,93			2SC4081	TRANSISTOR	
Q110			DTC114YUA	DIGITAL TRANSISTOR	
Q111			DTA114EUA	DIGITAL TRANSISTOR	
Q112			2SA1576A	TRANSISTOR	
Q113			2SB1188(Q,R)	TRANSISTOR	E1
Q113,114			2SB1188(Q,R)	TRANSISTOR	KK1M1
Q115			DTC114YUA	DIGITAL TRANSISTOR	KK1M1
Q130			RT1N441M-T111	TRANSISTOR	
Q170			RT1N241M-T111	TRANSISTOR	K
Q366			RT1N144M-T111	TRANSISTOR	
Q440			RT1N430M-T111	TRANSISTOR	
Q441			RT1P241M-T111	TRANSISTOR	

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-677x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
Q442			RT1N430M-T111	TRANSISTOR	
Q450,451			RT1N430M-T111	TRANSISTOR	
Q460			RT1N430M-T111	TRANSISTOR	
Q461			RT1P241M-T111	TRANSISTOR	
Q462			RT1N430M-T111	TRANSISTOR	
Q480			DTC124EUA	DIGITAL TRANSISTOR	
Q481			2SA1577	TRANSISTOR	
Q602			RT1N241M-T111	TRANSISTOR	
Q702			DTC144EUA	DIGITAL TRANSISTOR	
Q703			DTA124EUA	DIGITAL TRANSISTOR	
Q704,705			DTC143TUA	DIGITAL TRANSISTOR	
Q706			DTA114YUA	DIGITAL TRANSISTOR	
TH200			PRF18BE471QS2	POSITIVE RESISTOR	
A900	3B		W02-5374-05	ELECTRIC CIRCUIT MODULE	K
A480	2B		X86-4032-70	FRONT-END UNIT	E1
A480	2B		X86-4230-11	FRONT-END UNIT	KK1M1

Ref. No.	Add	New	Parts No.	Description	Destination

K: KIV-BT900 **K1**: KIV-700 **M1**: KIV-700 **E1**: KIV-700
(**E** : Europe **K** : North America **M** : Other Areas)

⚠Indicates safety critical components.

KIV-700/BT900

SPECIFICATIONS

FM tuner section (Destination "K")
Frequency range (200kHz space)..... 87.9MHz~107.9MHz
Usable sensitivity (S/N=30dB)..... 9.3dBf (0.8µV/75Ω)
Quieting sensitivity (S/N=50dB)..... 15.2dBf (1.6µV/75Ω)
Frequency response (±3dB)..... 30Hz~15kHz
Signal to noise ratio (MONO)..... 70dB
Selectivity (±400kHz)..... ≥80dB
Stereo separation (1kHz)..... 40dB

FM tuner section (Destination "M")
Frequency range
200kHz space..... 87.9MHz~107.9MHz
50kHz space..... 87.5MHz~108.0MHz
Usable sensitivity (S/N=30dB)..... 9.3dBf (0.8µV/75Ω)
Quieting sensitivity (S/N=50dB)..... 15.2dBf (1.6µV/75Ω)
Frequency response (±3dB)..... 30Hz~15kHz
Signal to noise ratio (MONO)..... 70dB
Selectivity (±400kHz)..... ≥80dB
Stereo separation (1kHz)..... 40dB

FM tuner section (Destination "E")
Frequency range (50kHz space)..... 87.5MHz~108.0MHz
Usable sensitivity (S/N=26dB)..... 0.7µV/75Ω
Quieting sensitivity (S/N=46dB)..... 1.6µV/75Ω
Frequency response (±3dB)..... 30Hz~15kHz
Signal to noise ratio (MONO)..... 65dB
Selectivity (DIN) (±400kHz)..... ≥80dB
Stereo separation (1kHz)..... 35dB

AM tuner section (Destination "K")
Frequency range (10kHz space)..... 530kHz~1700kHz
Usable sensitivity (S/N=20dB)..... 28dBµ (25µV)

AM tuner section (Destination "M")
Frequency range
10kHz space..... 530kHz~1700kHz
9kHz space..... 531kHz~1611kHz
Usable sensitivity (S/N=20dB)..... 28dBµ (25µV)

MW tuner section (Destination "E")
Frequency range (9kHz space)..... 531kHz~1611kHz
Usable sensitivity (S/N=20dB)..... 25µV

LW tuner section (Destination "E")
Frequency range..... 153kHz~281kHz
Usable sensitivity (S/N=20dB)..... 45µV

Bluetooth section (KIV-BT900)
Version..... Bluetooth Ver. 2.0 Certified
Frequency range..... 2.402GHz~2.480GHz
Output power .... +4dBm (MAX), 0dBm (AVE), Power Class 2
Maximum communication range
..... Line of sight approx. 10m (32.8ft)
Profile..... HFP (Hands Free Profile),
HSP (Headset Profile), SPP (Serial Port Profile),
PBAP (Phone book Access Profile),
OPP (Object Push Profile), SYNC (Synchronization Profile)

USB interface
USB standard..... USB 2.0 (Full speed)
Maximum supply current..... 5V, 500mA
File system..... FAT 16/ 32
D/A converter..... 24 Bit
Frequency response (±1dB)..... 10Hz~20kHz
Signal to noise ratio (1kHz)..... 110dB
Dynamic range..... 93dB
Video decode..... H.264/ MPEG4 AVC, MPEG4, WMV
Audio decode..... MP3, WMA, AAC, WAV (Linear PCM)

Monitor section
Picture size..... 3 inches (diagonal) wide
65.52 mm (W) x 36.84 mm (H)
Display system..... Transparent TN LCD panel
Drive system..... TFT active matrix system
Number of pixels..... 76,800 (320H x 240V x RGB)
Pixel arrangement..... RGB delta arrangement
Back lighting..... LED

Audio/Video section
Maximum output power..... 50W x 4
Full bandwidth power (at less than 1% THD)..... 22W x 4
Output power (DIN 45324, +B=14.4V)..... 30W x 4
Speaker impedance..... 4~8Ω
Tone action
BAND1 (62.5Hz)..... ±9dB
BAND2 (250Hz)..... ±9dB
BAND3 (1kHz)..... ±9dB
BAND4 (4kHz)..... ±9dB
BAND5 (16kHz)..... ±9dB
Preout level / Load (CD/CD-CH)..... 4000mV/10kΩ
Preout impedance..... ≤600Ω
iPod terminal
Video output level..... 1Vp-p (75Ω)
Audio output level..... 1.2V (10kΩ)

Auxiliary input
Frequency response (±1dB)..... 20Hz~20kHz
Input maximum voltage..... 1200mV
Input impedance..... 10kΩ

General
Operating voltage
KIV-BT900 (10.5~16V allowable)..... 14.4V
KIV-700 (11~16V allowable)..... 14.4V
Maximum current consumption..... 10A
Installation size (W x H x D)..... 182 x 53 x 158 mm
7-3/16 x 2-1/16 x 6-1/4 inch
Weight..... 2.6 lbs (1.20kg)

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.