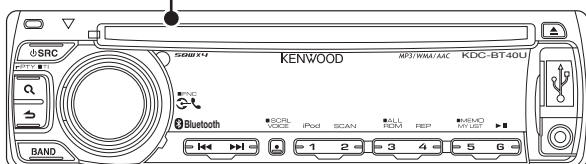
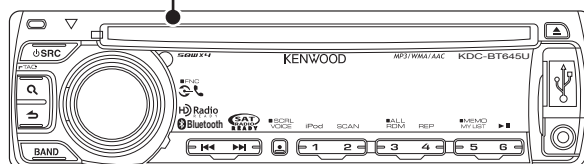


# KDC-BT40U/BT645U KDC-U546BT SERVICE MANUAL

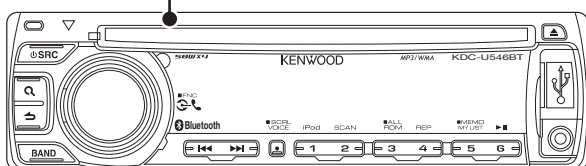
Panel assy  
KDC-BT40U (A64-5015-02)



Panel assy  
KDC-BT645U (A64-5013-02)



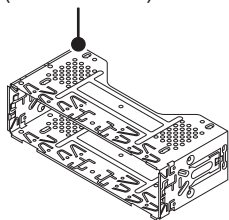
Panel assy  
KDC-U546BT (A64-5017-02)



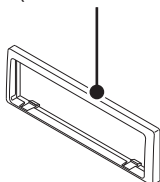
TDF SPARE-PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-BT40U	Y33-3272-72	TDF-BT40U
KDC-BT645U	Y33-3270-10	TDF-BT06D
KDC-U546BT	Y33-3270-21	TDF-U546BT

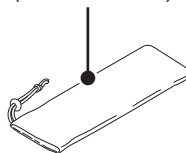
Mounting hardware assy  
(J22-0789-03)



Escutcheon  
(B07-3271-01)



\* Carrying case  
(W01-1710-05)



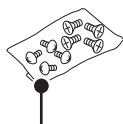
\* Remote controller assy (RC-405)  
(A70-2104-05)



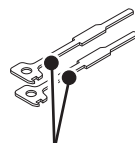
\* Screw (4x16)  
(N84-4016-48)



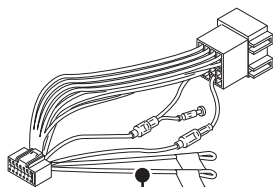
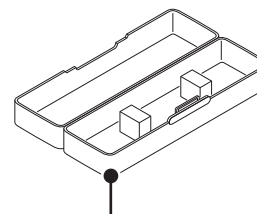
\* Screw set  
(N99-1757-15)



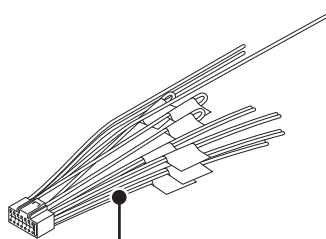
Lever  
(D10-7106-04) x2



\* Plastic cabinet assy  
(A02-2755-23)



\* DC cord  
(E30-6934-05)

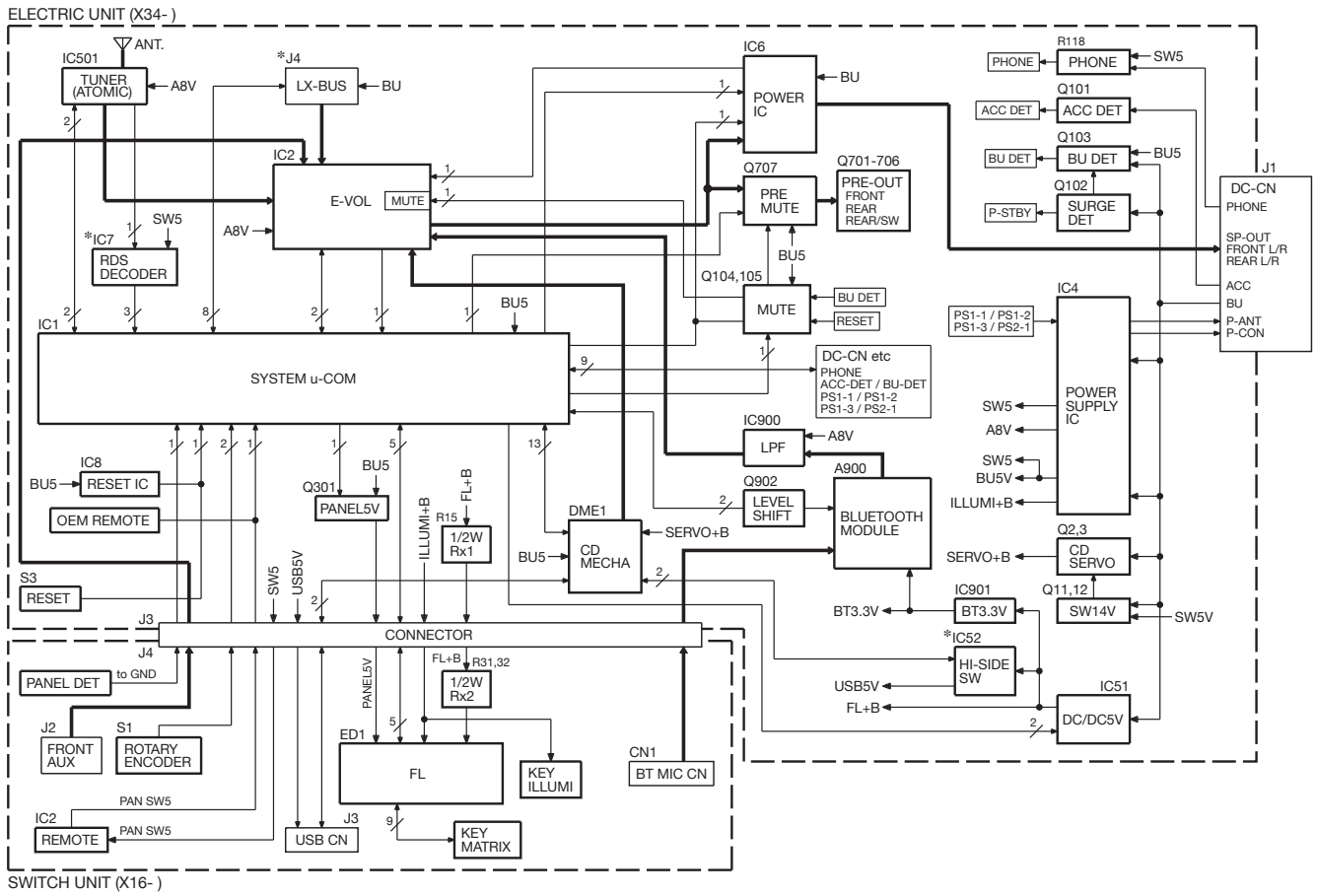


\* DC cord  
(E30-6933-05)

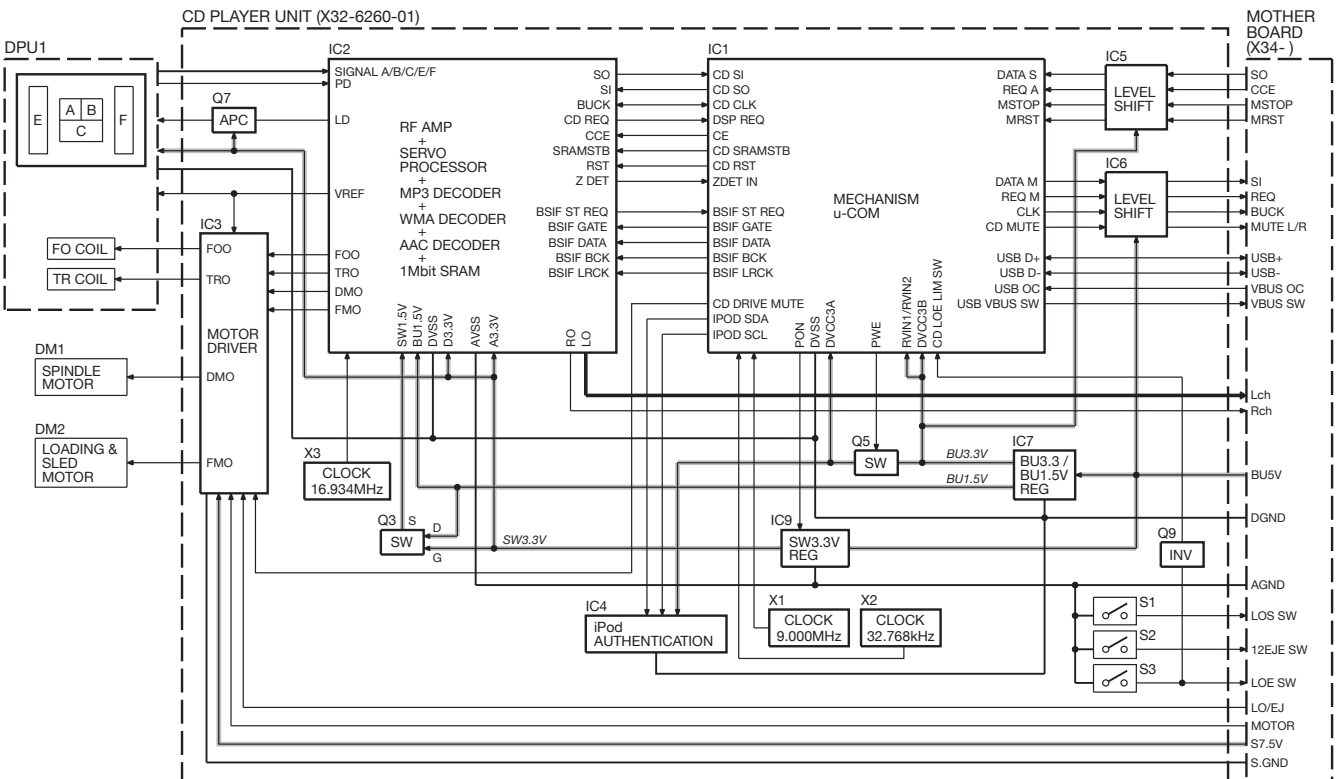
\* Depends on the model. Refer to the parts list.



# BLOCK DIAGRAM



SWITCH UNIT (X16-)



## COMPONENTS DESCRIPTION

### ● SWITCH UNIT (X16-678x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC2	Remote Control Sensor	
Q20	Key Scan Timing Adjust	When the base is Hi, key scan starts.
Q21	Grid Reversing Driver	When the base is Hi, GRID1 is ON.
Q22	Grid Reversing Driver	When the base is Hi, GRID2 is ON.
Q23	Grid Reversing Driver	When the base is Hi, GRID3 is ON

### ● ELECTRIC UNIT (X34-662x-xx)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	System $\mu$ -COM	Controls FM/AM tuner, CD mechanism, Panel, volume and tone.
IC2	E-VOL	Controls the source, volume and tone.
IC4	Power Supply IC	Outputs 5Vx2, 8.3V, 10.2V, P-CON and P-ANT.
IC6	Power IC	Amplifies the front L/R and the rear L/R to 50W maximum.
IC7	RDS IC	RDS decoder.
IC8	Reset IC	Lo when detection voltage goes below 3.6V.
IC51	SW REG	Power supply for D+5.1V. (to USB and panel)
IC52	Hi-side SW	Detection of USB over-current.
IC501	Tuner IC (ATOMIC)	Tuner IC.
IC900	LPF	Bluetooth outputs low pass filter.
IC901	D+3.3V AVR IC	Power supply for BT+3.3V.
Q2,3	Servo+B AVR	When Q3'base goes Hi, AVR outputs 7.5V.
Q11,12	Control SW for Servo+B	ON when the base goes Hi.
Q13	Control SW for IC4	ON when the base goes Hi.
Q14	Control SW for IC4	ON when the base goes Lo.
Q53	FREQ CONT SW for IC51	When the base goes Lo, switching frequency becomes 1.3MHz. When the base goes Hi, switching frequency becomes 1.8MHz.
Q101	ACC DET	ON when the base goes Hi during ACC is applied.
Q102	Surge DET	When the base goes Hi, surge voltage is detected.
Q103	BU DET	ON when the base goes Hi during BU is applied.
Q104,105	Mute Control	ON when the base goes Hi.
Q301	Panel 5V SW	ON when the base goes Lo.
Q707~706	Pre-out Mute SW	When a base goes Hi, Pre-out is muted.
Q707	Mute Driver for Pre-out	ON when the base goes Lo.
Q901	BT Module Reset Control	When the base goes Hi, BT module is reset.
Q902	Level Shift (5V $\rightarrow$ 3.3V)	Dual FET.

### ● CD PLAYER UNIT (X32-6260-01)

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC1	Mechanism $\mu$ -COM	Controls DSP and peripheral circuit. USB host controller. (Compliant with Universal Serial Bus Specification Rev2.0)
IC2	Servo DSP with Built-in Audio DAC	Built-in MP3-WMA-AAC decoder. Built-in 1M-bit-SRAM.
IC3	4ch BTL Driver	Driver for focusing & tracking coil, driver for sled & spindle motor, and operation for disc loading & ejection.
IC4	iPod Authentication	Connection authentication for iPod. MFI341S2162: iPhone-compliant.

## COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition / Compatibility
IC5	3.3V→5.0V Level Shift	Converts communication signal from 3.3V to 5.0V.
IC6	5.0V→3.3V Level Shift	Converts communication signal from 5.0V to 3.3V.
IC7	BU1.5V / BU3.3V Regulator	Power supply for digital back-up. Power supply for mechanism $\mu$ -COM.
IC8	E2PROM (Not used)	Memory for ROM correction. Countermeasure for software malfunction.
IC9	A3.3V Regulator	Power supply for digital, analog and audio line.
Q3	D1.5V Output	The output voltage in which the power supply that diverges from the BU1.5V line is turned on and off is used as D1.5V.
Q5	B.3.3V Output	The output voltage in which the power supply that diverges from the BU3.3V line is turned on and off is used as D3.3V.
Q6	Control signal Inverter	Controls Q5.
Q7	APC (Auto Power Control)	Laser diode driver.
Q9	Control signal Inverter	Because the detection logic of LOE/LIM_SW is different in the mechanism $\mu$ -COM and the system $\mu$ -COM, the logic to the mechanism $\mu$ -COM side is reversed.
D1	Laser Diode Protection	Prevents reverse bias which is applied to laser. Laser destruction prevention.
D2,3	Countermeasure against Static Electricity	The potential difference between DGND and AGND is absorbed, and the malfunction by static electricity is prevented.

# MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM  $\mu$ -COM : IC1 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
1~3	NC	-	Not used		Output L fixed
4	REMO	I	Remote control input		Detects pulse width
5	NC	-	Not used		Output L fixed
6	BYTE	-	Setting of memory extension bus		Connects to VSS
7	CNVSS	-			Connects to VSS H: Rewritable (Only when flash ROM is used)
8	XCIN	-	32.768kHz		
9	XCOU	-	32.768kHz		
10	RESET	-			L: Reset
11	XOUT	-	16.0MHz		
12	VSS	-			
13	XIN	-	16.0MHz		
14	VCC1	-			
15	NC	-	Not used		Output L fixed
16	LX REQ S	I	Communication request from slave unit		
17	RDS CLK	I	RDS decoder clock input		
18	PANEL DET	I	Panel communication detection		H: Panel detached, L: Panel attached
19~22	NC	-	Not used		Output L fixed
23	RDS QUAL	I	RDS decoder qualification input		
24	F SYNC	-	Not used		Output L fixed
25	RDS DATA	I	RDS decoder data input		
26	BEEP	O	Beep output		2kHz / 1kHz
27	TUN SCL	I/O	ATOMIC I2C clock output		
28	TUN SDA	I/O	ATOMIC I2C data input/output		
29	VFD SYS DATA	O	VFD data output		Communication begins after 500ms after VFD_BLK becomes Hi.
30	VFD PAN DATA	I	VFD data input		
31	VFD CL	O	VFD clock output		125kHz
32	VFD BLK	O	VFD driver reset output		H: Reset canceled, L: Reset, Momentary power-down or panel detached or 11 minutes after ACC OFF: L
33	BT SYS DATA	O	Data output to Bluetooth		
34	BT BT DATA	I	Data input from Bluetooth		
35	NC	-	Not used		Output L fixed
36	ROTARY CW	I	VOL encoder input		Detects pulse width
37	ROTARY CCW	I	VOL encoder input		Detects pulse width
38	$\overline{\text{PON PANEL}}$	I/O	Panel 5V control		ON: L, Momentary power-down or panel detached or 11 minutes after ACC OFF: Hi-Z
39	EPM	I	Flash ROM EPM input		L: Rewritable (Only when flash ROM is used) Connects to VSS
39	ROMCOR DET	I	E2PROM writing request		H: Writing
40~43	NC	-	Not used		Output L fixed
44	VFD CE	O	VFD control request		
45	S SYS DATA	O	Serial output to Bolero		
46	S SOC DATA	I	Serial input from Bolero		

## MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
47	S SOC CLK	I	Serial clock input from Bolero		
48	NC	-	Not used		Output L fixed
49	S SOC REQ	I	Communication request from mechanism to system $\mu$ -com		
50	CD LOS SW	I	CD loading detection		
51	CD DISC12 SW	I	12cm disc detection		
52	SOC MUTE	I	SOC mute request		L: Mute request, H: Normal
52	CD MUTE	I	CD mute request		L: Mute request, H: Normal
53	SOC RST	O	SOC reset		H: Normal, L: Reset
54	S SYS REQ	O	Communication request from system $\mu$ -com to mechanism		
55	NC	-	Not used		Output L fixed
56	CD MOTOR	O	CD motor control	①	Refer to the truth value table
57	CD LOEJ	I/O	CD motor control	①	Refer to the truth value table
58	SOC S STOP	O	SOC stop		H: Normal, L: SOC stopped
59	CD LOE LIM SW	I	CD detection (Chucking SW)		H: Loading completed, L: No disc
60	VCC2	-			
61	NC	-	Not used		Output L fixed
62	VSS	-			
63~65	NC	-	Not used		Output L fixed
66	BT RST	O	Bluetooth module reset		L: Normal, H: Bluetooth reset
67	PON FL	O	Key illumination power supply control		H: ON, L: OFF
68	PS1 1	O	Power supply IC control	②	Refer to the truth value table
69	PS1 2	O	Power supply IC control	②	Refer to the truth value table
70	PS1 3	O	Power supply IC control	②	Refer to the truth value table
71	PS2 1	O	Power supply IC control	②	Refer to the truth value table
72	NC (PS2 2)	-	Not used		Output L fixed
73	BU DET	I	Momentary power-down detection		BU found: L, No BU or momentary power-down: H
74	ACC DET	I	ACC power supply detection		ACC found: L, No ACC: H
75	AUD SDA	I/O	I2C data input/output		MAX 400kHz
76	AUD SCL	I/O	I2C clock input/output		MAX 400kHz
77	NC	-	Not used		Output L fixed
78	FSEL	O	SW-REG frequency SW		H: 2.04MHz, L: 1.68MHz
79	PON SWREG	O	SW-REG ON/OFF		H: ON, L: OFF
80	LINE MUTE	I	Line mute detection		Normal: Below 2.5V, NAVI mute: Over 2.5V
81	TYPE 1	I	Destination SW		
82	NC (TYPE 2)	-	Not used		Output L fixed
83	PWIC DC ERR	I	Detection of power IC short-circuited +B/GND		
84	AUD DC ERR	I	DC offset detection		If DC offset is detected 20 times in 100ms with condition below 1.0V, it will be judged as DC offset is detected.
85	TUN SMETER	I	S-meter input		
86	NC	-	Not used		Output L fixed

# MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth Value Table	Processing / Operation / Description
87	PWIC MUTE	O	Power IC mute		STANDBY source or momentary power-down: L, TEL mute: L
88	NC	-	Not used		Output L fixed
89	PWIC STBY	O	Power IC standby control		POWER ON: H, POWER OFF: L
90	MUTE	I/O	Mute		L: Mute OFF, Hi-Z: Mute ON
91	LX MUTE	I	Mute request from slave unit		H: Mute ON, L: Mute OFF
92	LX CON	O	Start-up request to slave unit		H: Slave unit ON, L: Slave unit OFF
93	LX RST	O	Forced reset to slave unit		H: Reset, L: Normal
94	AVSS	-			
95	LX REQ M	O	Communication request to slave unit		
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		

## • Truth value table

### ① CD motor control

	CD MOTOR (Pin 56)	CD LOEJ (Pin 57)
Stop	L	L
Load	H	L
Eject	H	H
Brake	H	Hi-z

### ② Power supply IC (IC4) control

#### SEL1 (Pin 10)

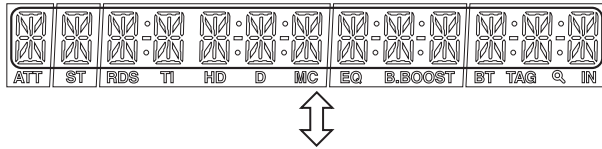
PS1-2	PS1-3	PS2-1	ILLUMI	P-CON	P-ANT
L	L	L	OFF	OFF	OFF
L	L	H	ON	OFF	OFF
H	L	H	ON	ON	OFF
H	H	H	ON	ON	ON

#### SEL2 (Pin 11)

PS1-1	PS2-2	AUDIO/SW5	AM
L	L	OFF	OFF
H	L	ON	OFF
H	H	ON	ON

# TEST MODE

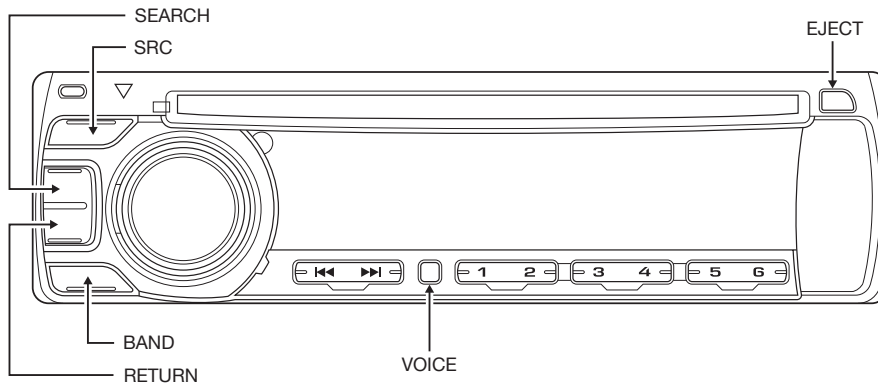
## ■ Example



Key	Description of display	Description

A symbol “■” in the key column indicates that the key should be pressed and held.

Key	Description of display	Description
5		Disc Eject times display (Max. 65535 times).
■ 5	Disc Eject times display	While Disc Eject times is displayed, press and hold for 2 seconds or longer to clear Disc Eject times.



## ■ How to enter the Test mode

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

All lamps blink when it is detected that the sub-clock resonator is disconnected.

When having started up in the Test mode, change the LINE MUTE inhibition time from 10 seconds to 1 second.

In the Test mode, do not write the detection information in the Data Flash ROM even if a DC Offset Error is detected.

Do not operate the DEMO mode in the Test mode, CD Mechanism Error Log Information Clear Mode, or DC Offset Error Detection Information Clear Mode.

Also, when the source is STANDBY in the above mode, do not display DEMO ON/OFF switching items in the FUNCTION.

In the Test mode, the forced disc ejection operation is prohibited.

## ■ How to clear the Test mode

Procedure	Note
Reset, Momentary power down, ACC OFF, Power OFF, Panel detached.	Clearing the Test mode

## ■ Test mode default condition

Description	Default values
Source	STANDBY
Display	Display lights are all turned on.
VOL	-10dB (“30” is displayed.)







# TEST MODE

• CD information display mode (sub-mode)

Key	Key	Description of display	Description
BAND (forward rotation)	I◀◀ / ▶▶I	CD mechanism error log display	M E C H A □ E R 1 □ □ : X X Mechanism error log 1 (Latest) XX: Error number. The "--" is displayed in case there is no error.
			M E C H A □ E R 2 □ □ : X X Mechanism error log 2 (Latest) XX: Error number. The "--" is displayed in case there is no error.
			M E C H A □ E R 3 □ □ : X X Mechanism error log 3 (Latest) XX: Error number. The "--" is displayed in case there is no error.
	I◀◀ / ▶▶I	CD load error information display	L O A D □ □ E R 1 □ □ : X X Load error switch 1 XX: The number of errors. The "--" is displayed in case there is no error.
			L O A D □ □ E R 2 □ □ : X X Load error switch 2 XX: The number of errors. The "--" is displayed in case there is no error.
	I◀◀ / ▶▶I	CD ejection error information display	E J E C T □ E R 1 □ □ : X X Ejection error switch 1 XX: The number of errors. The "--" is displayed in case there is no error.
			E J E C T □ E R 2 □ □ : X X Ejection error switch 2 XX: The number of errors. The "--" is displayed in case there is no error.
			E J E C T □ E R 3 □ □ : X X Ejection error switch 3 XX: The number of errors. The "--" is displayed in case there is no error.
			E J E C T □ E R 4 □ □ : X X Ejection error switch 4 XX: The number of errors. The "--" is displayed in case there is no error.
	I◀◀ / ▶▶I	CD time code error count information display (Missing counts)	C N T □ L O S E □ □ □ □ □ □ CD time code error count information (Missing counts) mode is display.
			C D D A □ □ □ □ □ □ □ □ : X X Number of CD-DA error counts XX: The number of errors. The "--" is displayed in case there is no error.
			C D R O M □ □ □ □ □ □ □ □ : X X CD-ROM (Compression file) number of count errors XX: The number of errors. The "--" is displayed in case there is no error.
I◀◀ / ▶▶I	CD time code error count information display (Count is not updated.)	C N T □ S T A Y □ □ □ □ □ □ CD time code error count information (Count is not updated) mode display.	
		C D D A □ □ □ □ □ □ □ □ : X X Number of CD-DA error counts XX: The number of errors. The "--" is displayed in case there is no error.	
		C D R O M □ □ □ □ □ □ □ □ : X X CD-ROM (Compression file) number of count errors XX: The number of errors. The "--" is displayed in case there is no error.	

## TEST MODE

### • Design version information display mode (sub-mode)

Key	Description of display		Description
BAND (forward rotation)	Destination terminal condition display	T Y P E 2 1 □ □ □ □ □ □ □ □ □ □ : 1 1	TYPE indicates μ-com destination, and indicates condition of the destination terminal in real-time.
	Development ID condition display	0 9 2 8 W E 2 □ □ □ □ - 3 . 0 0	Development code - Version (system μ-com)
	BT module address	B T A D □ □ □ □ □ □ □ □ □ □ □ □	BT module address information display (in 12 digits) (The display scrolls to display all of the digits)
	BT module PIN code	P I N □ □ □ □ : □ □ □ □ □ □ □ □ □ □	BT module PIN code display

### ■ Test mode in Tuner source

If the following display is shown when the source is TUNER, it indicates an error.

Status	Description of display	Description
TUNER IC communication error	T U N □ C O N □ N G □ □ □ □	This display indicates the status in which the communication with TUNER IC is not possible.
The adjustment is not yet made.	* E R R * □ □ □ A □ 9 8 . 3 A	This display indicates the status in which the TUNER adjustment has never been made (Adjustment value: 0X00 or 0XFF) However the following TUNER test mode functions are valid (Note that the display, “*ERR*” remains as it is.)

### • TUNER band switching operation

Key	Description of display		Description
BAND	BAND switching operation	F M 1 - 4 □ □ □ A □ 9 8 . 3 A	Every time when the [BAND] key is pressed, the BAND is switched as listed in the next table for each TYPE.

MODEL (KDC-)	BAND1	BAND2	BAND3	BAND4	BAND5	BAND6	Description
BT645U	①FM1	FM2	FM3	②AM	-	-	① → ②
BT40U	①FM1	FM2	FM3	②MW/LW	-	-	① → ②
U546BT	①FM1	FM2	FM3	②MW	③SW1	④SW2	① → ② → ③ → ④

### • Switch in injection setting / packs setting

In the TUNER FM source, every time the [5] key is pressed and held for 1 second the injection setting switches in the following sequence of order: AUTO → H → L → AUTO.

In the TUNER FM source, every time the [6] key is pressed and held for 1 second the packs setting switches in the following sequence of order: AUTO → 1 → 2 → . . . 7 → AUTO.

In both settings, the default condition is AUTO, which is displayed as shown in the next table.

Key	Description of display		Description
■5	Injection setting switching	F M 1 - 4 □ □ □ A □ 9 8 . 1 A	A: Injection setting AUTO
		F M 1 - 4 □ □ □ A □ 9 8 . 1 H	H: Injection setting H
		F M 1 - 4 □ □ □ A □ 9 8 . 1 L	L: Injection setting L
■6	Packs setting switching	F M 1 - 4 □ □ □ A □ 9 8 . 1 A	A: Packs setting AUTO
		F M 1 - 4 □ □ □ 7 □ 9 8 . 1 A	X: Packs setting 1~7

# TEST MODE

## • TUNER setting adjustment mode

This mode is to adjust TUNER setting.

Key	Note
■VOICE	Press this key to change the mode to the TUNER setting adjustment (Press and hold the key for 1 second). When the source is FM, frequency is switched to 98.3MHz at the start of the adjustment mode. Press and hold the [VOICE] key.

Procedures in the TUNER setting adjustment mode are as follows:

## • Adjustment mode switching (AUTO/MANUAL)

Key	Description of display	Description
■BAND (forward rotation)	Level Offset adjustment (Auto) A □ S - X X □ L - X X □ □	Press and hold the [BAND] key for 1 second to select the TUNER adjustment method (A: AUTO / M: MANUAL). S-XX → Present S meter value (HeX) L-XX → Level offset value (HeX) *When the level offset value is not yet adjusted (0xFF or 0X00), "--" is displayed.
	Level Offset adjustment (Manual) M □ S - X X □ L - X X □ □	

## • Procedure in the AUTO adjustment mode

Key	Description of display	Description
ROTARY	In automatic adjustment A □ S - X X □ L - X X □ □	Press this key briefly to start the automatic adjustment.
	Completion of automatic adjustment Save the adjustment value. A D J □ O K □ □ □ □ □ : X X (Level offset value)	After the completion of the automatic adjustment, save the level offset value in the Data Flash ROM and display the resultant level offset value (HeX).
	Failure of the automatic adjustment Cannot save the adjustment value. Save the failed value (0xFF). A D J □ N G □ □ □ □ □ □ □ □	Display shown when the automatic adjustment failed (Write 0xFF in the Data Flash ROM. → Given the 0xFF saved in the ROM, the adjustment starts with "--" when the automatic adjustment mode is re-started.)
RETURN	Mode clear F M 1 - 4 □ □ A □ 9 7 . 9 A	This is to clear the FST adjustment mode (in normal operation) (The display returns to the normal display and the test mode is retained.) Frequency is switched to 97.9MHz.
	Mode clear * E R R * □ □ A □ 9 7 . 9 A	This is to clear the FST adjustment mode (when failed in the automatic adjustment) (The display returns to the normal display and the test mode is retained.) Frequency is switched to 97.9MHz.

## • Procedure in MANUAL adjustment mode

Key	Description of display	Description
◀◀ / ▶▶ ■◀◀ / ▶▶	Level Offset adjustment (Manual) M □ S - X X □ L - X X □ □	Press [◀◀ / ▶▶] key for 500ms or longer to continuously increase / decrease the adjustment value.
ROTARY	Completion of the adjustment value saving A D J □ O K □ □ □ □ □ : X X (Level offset value)	Display when the adjustment value has been saved in the Data Flash ROM The saved level offset value (HeX) is displayed.
	Failed to save the adjustment value A D J □ N G □ □ □ □ □ □ □ □	Display when the adjustment value has not been saved in the Data Flash ROM

## TEST MODE

Key	Description of display		Description
RETURN	Mode clear	F M 1 - 4 [ ] [ ] A [ ] 9 7 . 9 A	This is to clear the FST adjustment mode (in normal operation) (The display returns to the normal display and the test mode is retained.) Frequency is switched to 97.9MHz.
		* E R R * [ ] [ ] A [ ] 9 7 . 9 A	This is to clear the FST adjustment mode (when failed in the automatic adjustment) (The display returns to the normal display and the test mode is retained.) Frequency is switched to 97.9MHz.

After the TUNER setting adjustment, the entire test modes can be cleared with the reset button.

If you do not save the adjustment value in the Data Flash ROM after the adjustment, the value is not saved in the ROM.

When the level offset value is read out and found to be 0X00 or 0XFF, it is decided that the adjustment is not yet made.

The adjustment starts with the default value (0X3E) when the adjustment is re-started from the status in which it is not yet made.

Setting is not yet adjusted: L - - -



[ I◀◀ / ▶▶ I ] key operation

Start the adjustment: L - 3 E



[ I◀◀ / ▶▶ I ] key operation

Increase / Decrease the adjustment value: L - X X

### • S-meter voltage pass and fail evaluation mode

This mode is to display the S-meter present voltage (Hex) and to check and evaluate if the voltage is within the criteria or not (OK or NG).

Check and evaluate the voltage only after the completion of the TUNER setting adjustment. (When the setting is not yet adjusted, "--" is displayed.)

When receiving AM, do not select this mode.

In this mode, the BAND switching and SEEK operations such as operation of [BAND], [ I◀◀ / ▶▶ I ], and [PRESET] keys shall be prohibited.

Key	Description of display		Description
RETURN	S-meter voltage pass and fail evaluation display ON/OFF	S - M T R [ ] [ ] [ ] [ ] X X : O K	[S-meter value] XX: Present S-meter value (Hex)
		(S-meter value) (Evaluation result)	[S-meter value evaluation result] OK: S-meter voltage is within the range of the criteria (0XA3~0XAD)
		S - M T R [ ] [ ] [ ] [ ] X X : N G	NG: S-meter voltage is outside of the range of the criteria (Outside of the above range)
		S - M T R [ ] [ ] [ ] [ ] X X : - -	--: TUNER setting is not yet adjusted.

### • RDS automatic measurement (KDC-BT40U only)

This automatic measurement is implemented in place of the visual inspection of the PS display that had been carried out in the production line.

Status	Description of display	Description
PS data reception	R D S [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	The P-CON is forcibly turned off when the display in the left cell is shown. P-CON is recovered by turning the power OFF and ON (Power OFF/ON).

# TEST MODE

## ■ Test mode in CD source

Display mode default	P-Time
----------------------	--------

## • Procedure in CD-DA media (KTD-02A)

Key		Description of display	Operation
▶▶	Track up procedure		Every time pressed, jumps to the track shown below. No.9 → No.15 → No.10 → No.22 → No.12 → No.13 → No.14 → No.9 (recursive) But in case the disc has 8 tracks or less, playback starts with track No.1 (at both of CD-DA and compressed file disc).
◀◀	Track down procedure		Goes down by 1 track from the currently played track.
1	Jump procedure		Jump to No.28. (0.7mm scratch for MUSIC line vibration test)
2	Jump procedure		Jump to No.14. (Blurring surface disc: TCD-731RA Tr14)
3 (forward rotation)	Information display Mechanism model name Mechanism version	<input type="checkbox"/> 9 <input type="checkbox"/> B <input type="checkbox"/> 3 <input type="checkbox"/> 0: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Mechanism model name and mechanism version display
	Information display Mechanism Servo version	<input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> R <input type="checkbox"/> V: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Mechanism servo table version display
	Information display Mechanism Boot program version	<input type="checkbox"/> B <input type="checkbox"/> O <input type="checkbox"/> O <input type="checkbox"/> T: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Mechanism boot program version display
4	Jump procedure		Jump to No.15. Set the volume value to "26". (For 20Hz 0dB DC protection error operation FCT checking)
5	Jump procedure	*Switch the track jump from No.9 to No.22 or from No.22 to No.9 (No.9 ↔ No.22)	When the track No.22 is being played back, this key makes the track jump to No.9.
			When the track No.9 is being played back, this key makes the track jump to No.22.
6	PLAY/PAUSE procedure		This key is to switch from PLAY to PAUSE and vice versa (PLAY/PAUSE). (Normal operation)

## • Procedure in compressed media

Key	Description of display	Description
-	File format display (MP3) <input type="checkbox"/> M <input type="checkbox"/> P <input type="checkbox"/> 3 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	The file format is displayed just before the file playback.
-	File format display (WMA) <input type="checkbox"/> W <input type="checkbox"/> M <input type="checkbox"/> A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
-	File format display (AAC) <input type="checkbox"/> A <input type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	

## ■ Backup current measurement

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

## TEST MODE

### ■ Clearing DC offset error detection information (Clear the Data Flash ROM)

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

The transition to this mode shall be possible even if the DC offset error has been detected.

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

Procedure	Description of display	Description
While pressing and holding [3] key and [6] key, reset-start.	D C [ ] [ ] E R R [ ] [ ] [ ] [ ] [ ] [ ]	When DC offset error is detected (when either one of capacitor leak is leaking, or an improper connection or other error is detected)
	D C [ ] [ ] O K [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	When DC offset error is not detected (when none of capacitor leak, no improper connection or other error is detected)
1	D C 1 [ ] E R R [ ] [ ] [ ] [ ] [ ] [ ]	When improper connection or other DC offset errors are detected.
	D C 1 [ ] O K [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	When improper connection or other DC offset errors are detected.
■ 1	D C 1 [ ] O K [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	When there is any misconnection detected or when the DC offset error is displayed during the other detection period, press and hold this key for 2 seconds to clear the detection information. (Clear the Data Flash ROM)
2	D C 2 [ ] 4 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Capacitor leak detection period display of the detected times of capacitor leaks. (0~4)
■ 2	D C 2 [ ] 0 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Press and hold this key for 2 seconds when a capacitor leak is detected to clear the number of detection. (Clear the Data Flash ROM)

### ■ FM/AM Channel space switching (KDC-BT645U/U546BT only)

Procedure	Note
While Power OFF, pressing and holding [1] key and [5] key, and press [SRC] key to Power ON	FM200kHz/AM10kHz ↔ FM50kHz/AM9kHz (KDC-BT645U) FM50kHz/MW9kHz/SW5kHz ↔ FM200kHz/AM10kHz (KDC-U546BT)

### ■ Forced update

Procedure	Note
Start resetting while keeping pressing the [1] key and [SEARCH] key.	To enter the forced update mode.

After entering the mode, make the normal SRC feed with the [SRC] key, DISC insertion, and USB insertion.

The display of the SRC switches and READING is shown in the same manner as the display of 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".

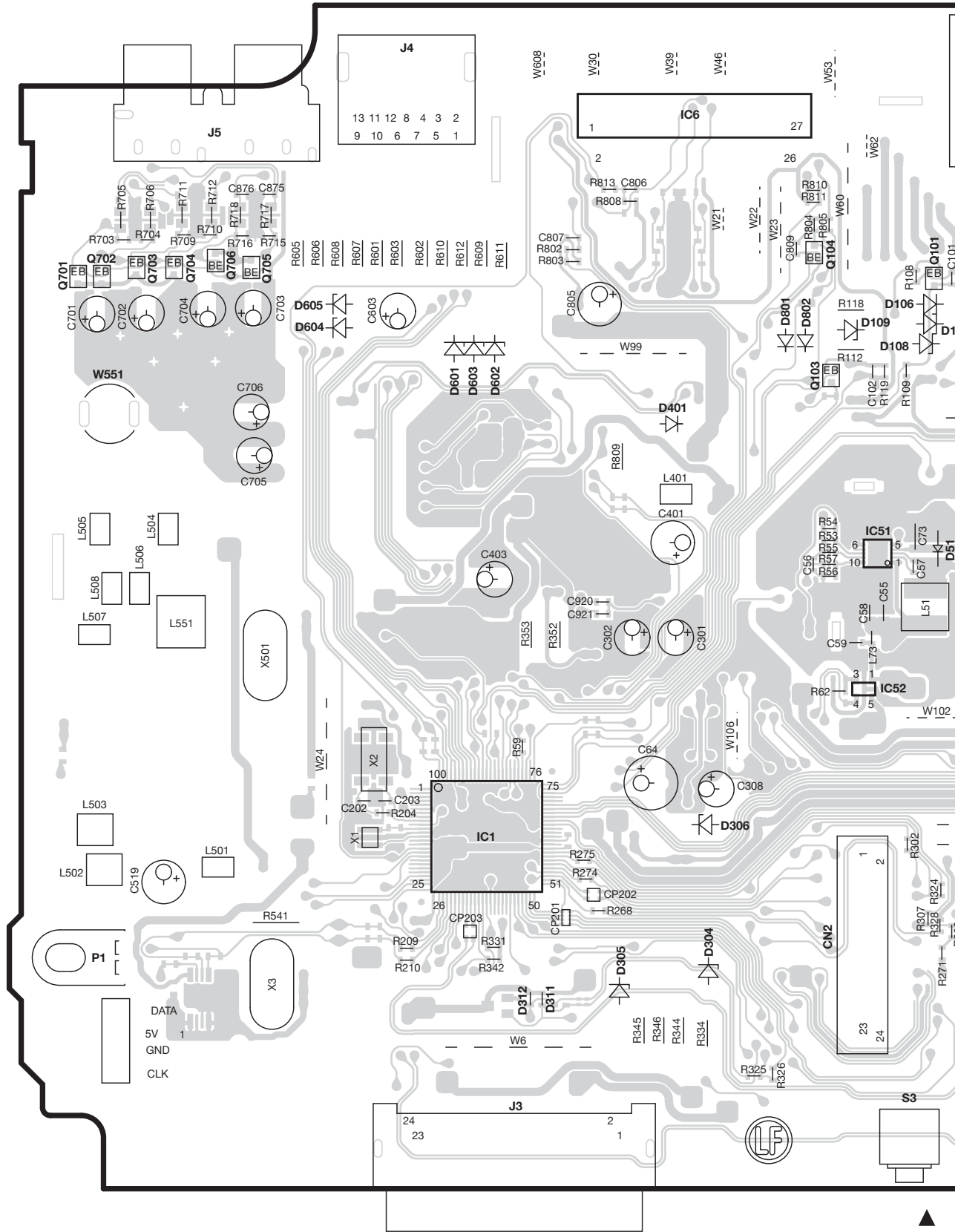
Procedure	Description of display	Description
	F / W [ ] U P [ ] M O D E [ ] [ ]	STANDBY condition in the forced update mode
	R E A D I N G [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	After the SRC switches, the "READING" is displayed during reading (The display blinks)
	N O [ ] F I L E [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	The "NO FILE" is displayed when there is no update file
	U P D A T I N G [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	The UPDATE in progress is displayed after it is verified that there is an update file and while updating the file (The display blinks).
	C O M P L E T E [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]	Completion of UPDATE
	U P D A T E [ ] E R R [ ] [ ] [ ] [ ] [ ] [ ]	UPDATE error

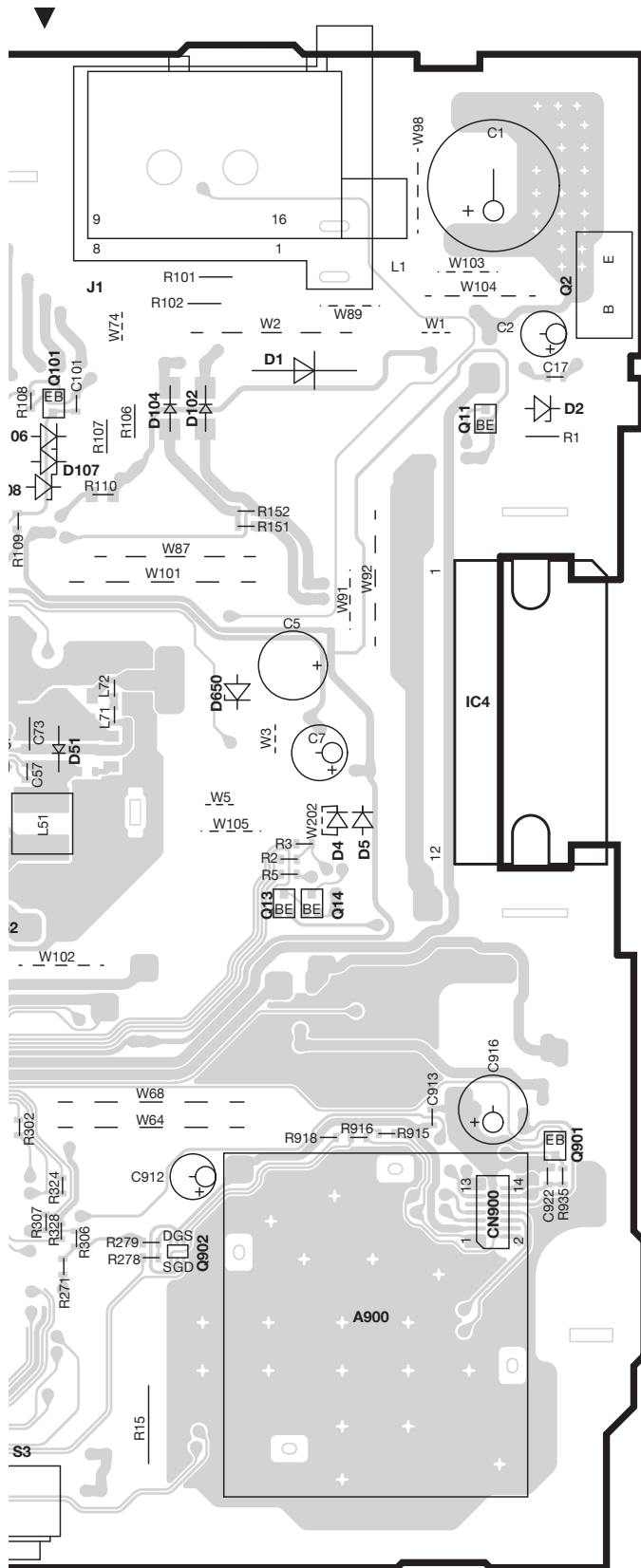




# PC BOARD (COMPONENT SIDE VIEW)

ELECTRIC UNIT  
X34-662x-xx (J76-0648-02)





## X34-662x-xx

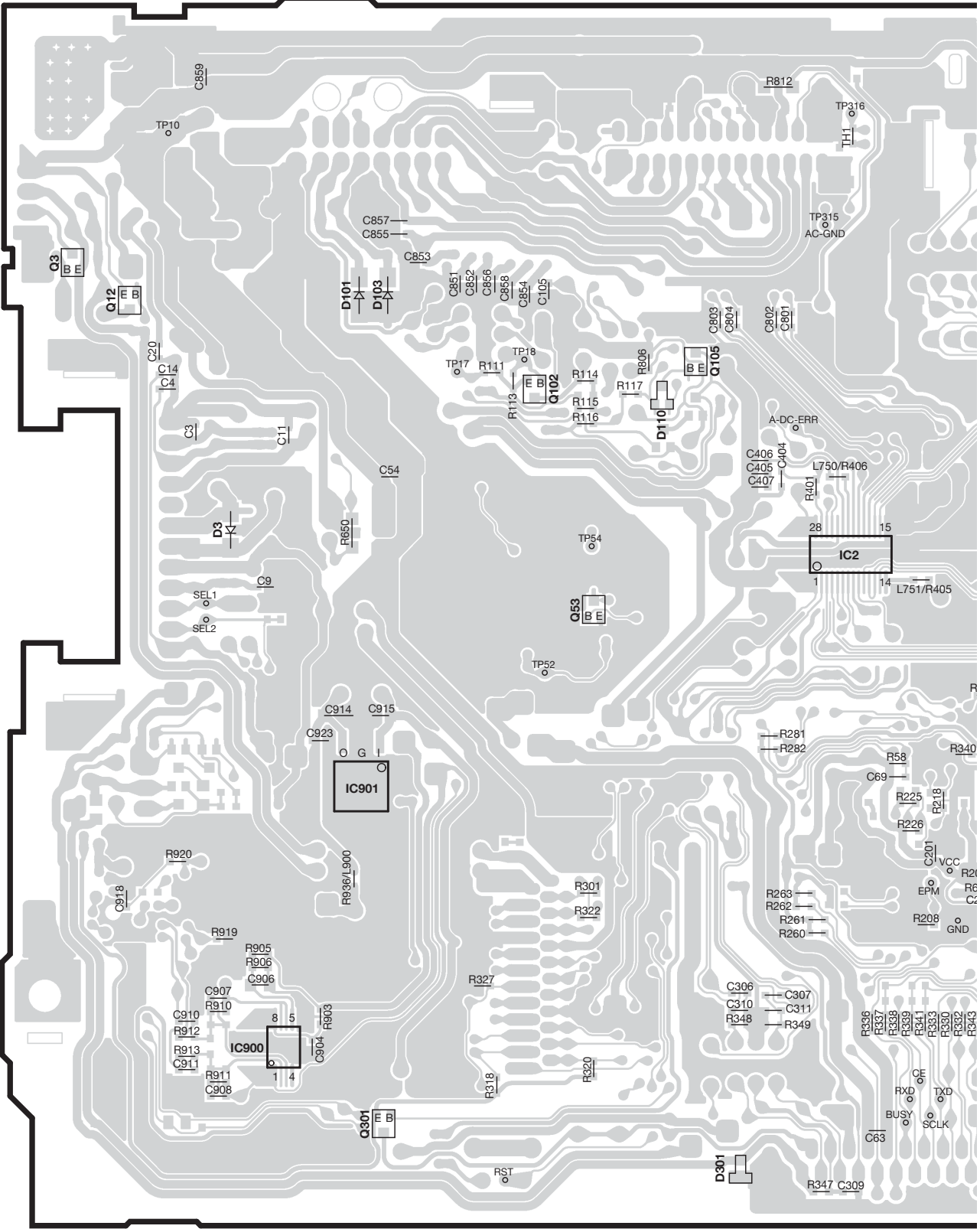
Ref. No.	Address
IC1	5H
IC4	4L
IC6	2I
IC51	4J
IC52	5J
Q2	2M
Q11	3L
Q13	4K
Q14	4L
Q101	3K
Q103	3J
Q104	3J
Q701	3F
Q702	3G
Q703	3G
Q704	3G
Q705	3G
Q706	3G
Q901	5M
Q902	6K

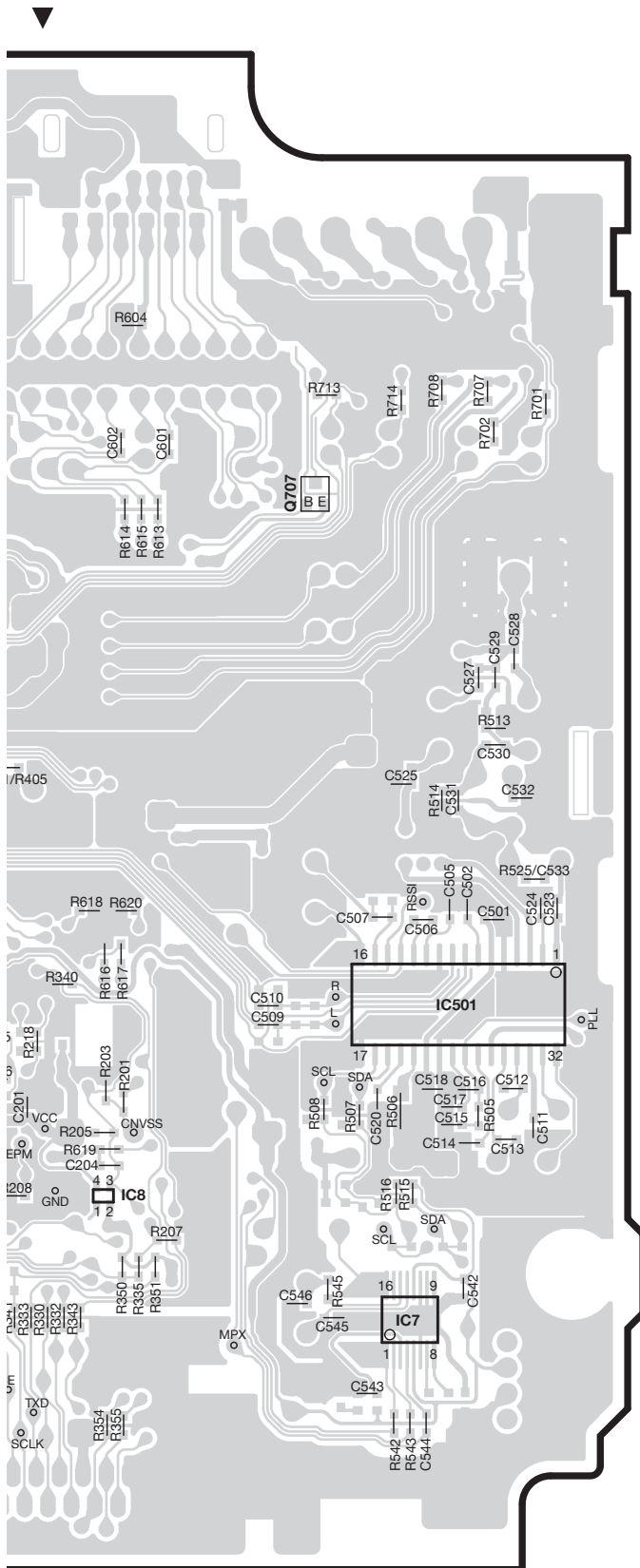
Refer to the schematic diagram for the values of resistors and capacitors.

KDC-BT40U/BT645U  
KDC-U546BT

# PC BOARD (FOIL SIDE VIEW)

**ELECTRIC UNIT**  
X34-662x-xx (J76-0648-02)





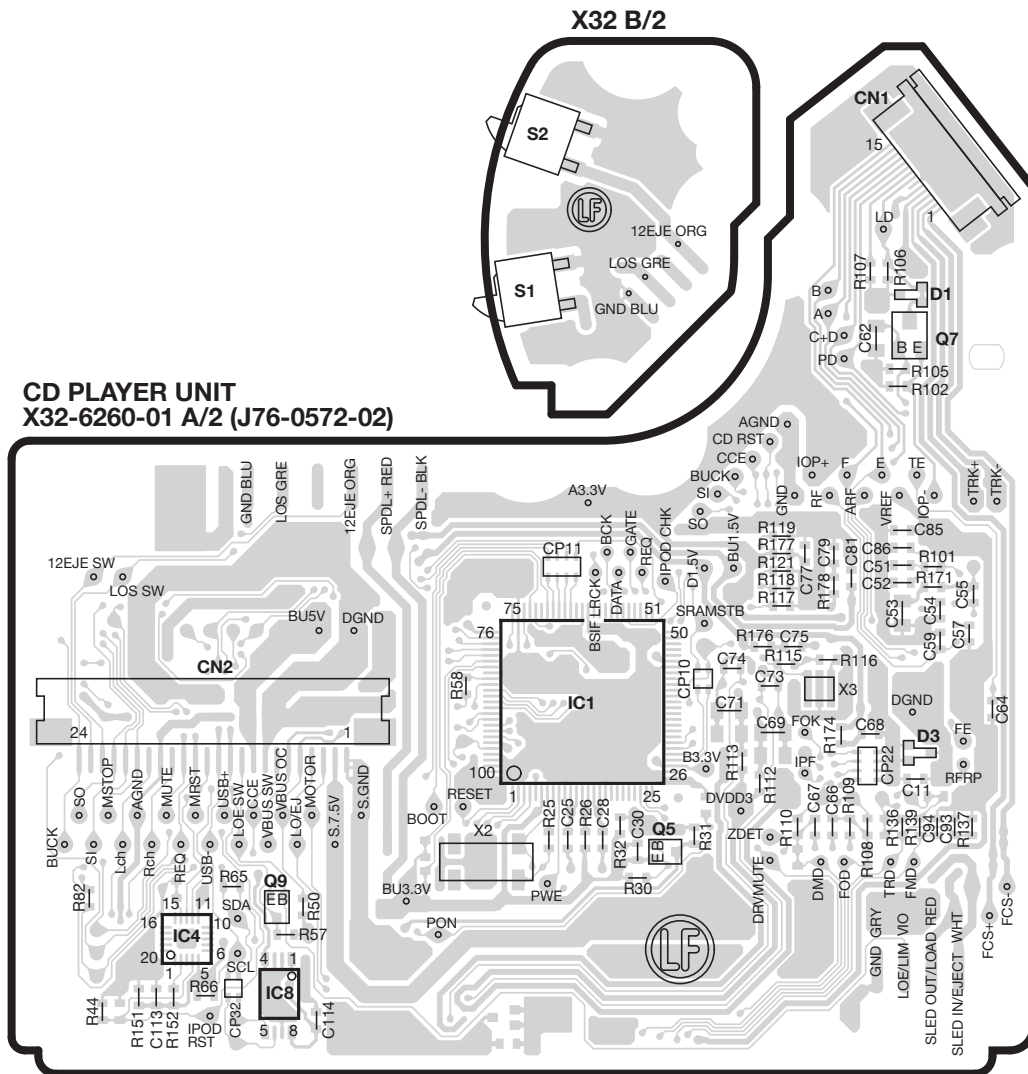
## X34-662x-xx

Ref. No.	Address
IC2	4T
IC7	6V
IC8	5U
IC501	5V
IC900	6Q
IC901	5R
Q3	3P
Q12	3Q
Q53	4S
Q102	3S
Q105	3S
Q301	6R
Q707	3V

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

KDC-BT40U/BT645U  
KDC-U546BT

# PC BOARD (COMPONENT SIDE VIEW)

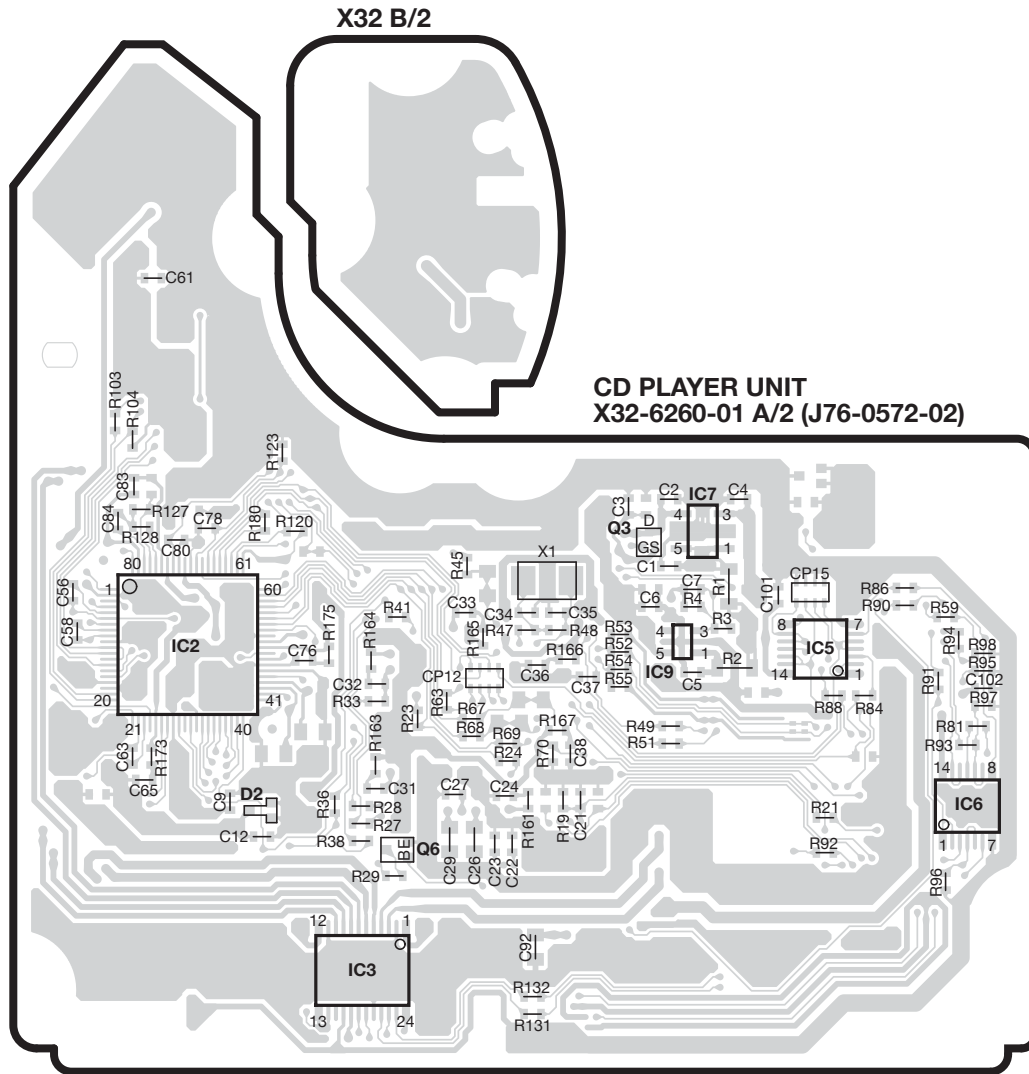


**X32-6260-01**

Ref. No.	Address
IC1	4AB
IC4	4AA
Q5	4AC
Q7	2AD
Q9	4AA

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

# PC BOARD (FOIL SIDE VIEW)



**CD PLAYER UNIT**  
**X32-6260-01 A/2 (J76-0572-02)**

**X32-6260-01**

Ref. No.	Address
IC2	3AF
IC3	4AF
IC5	3AH
IC6	4AH
IC7	3AG
IC9	3AG
Q3	3AG
Q6	4AF

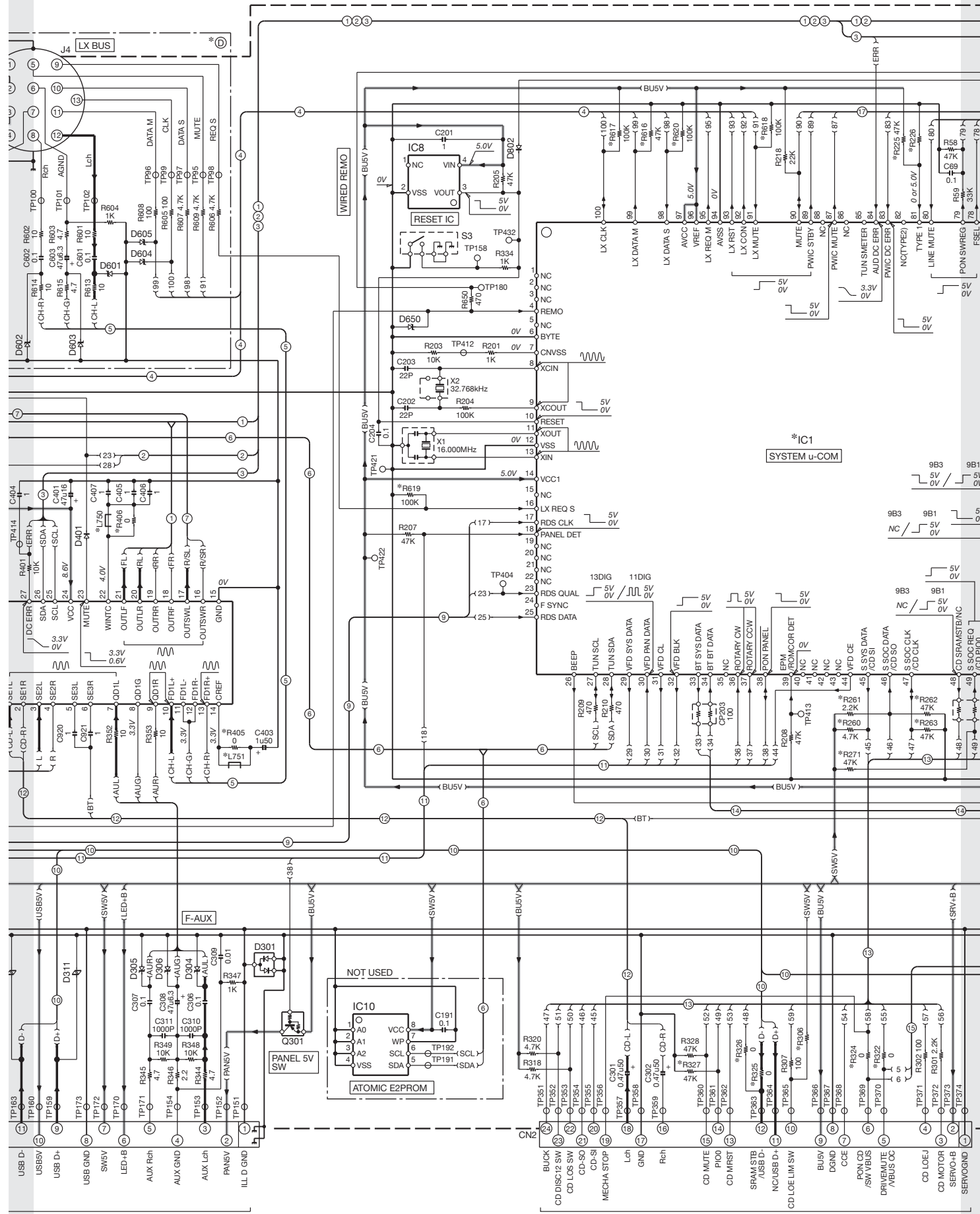
Refer to the schematic diagram for the values of resistors and capacitors.





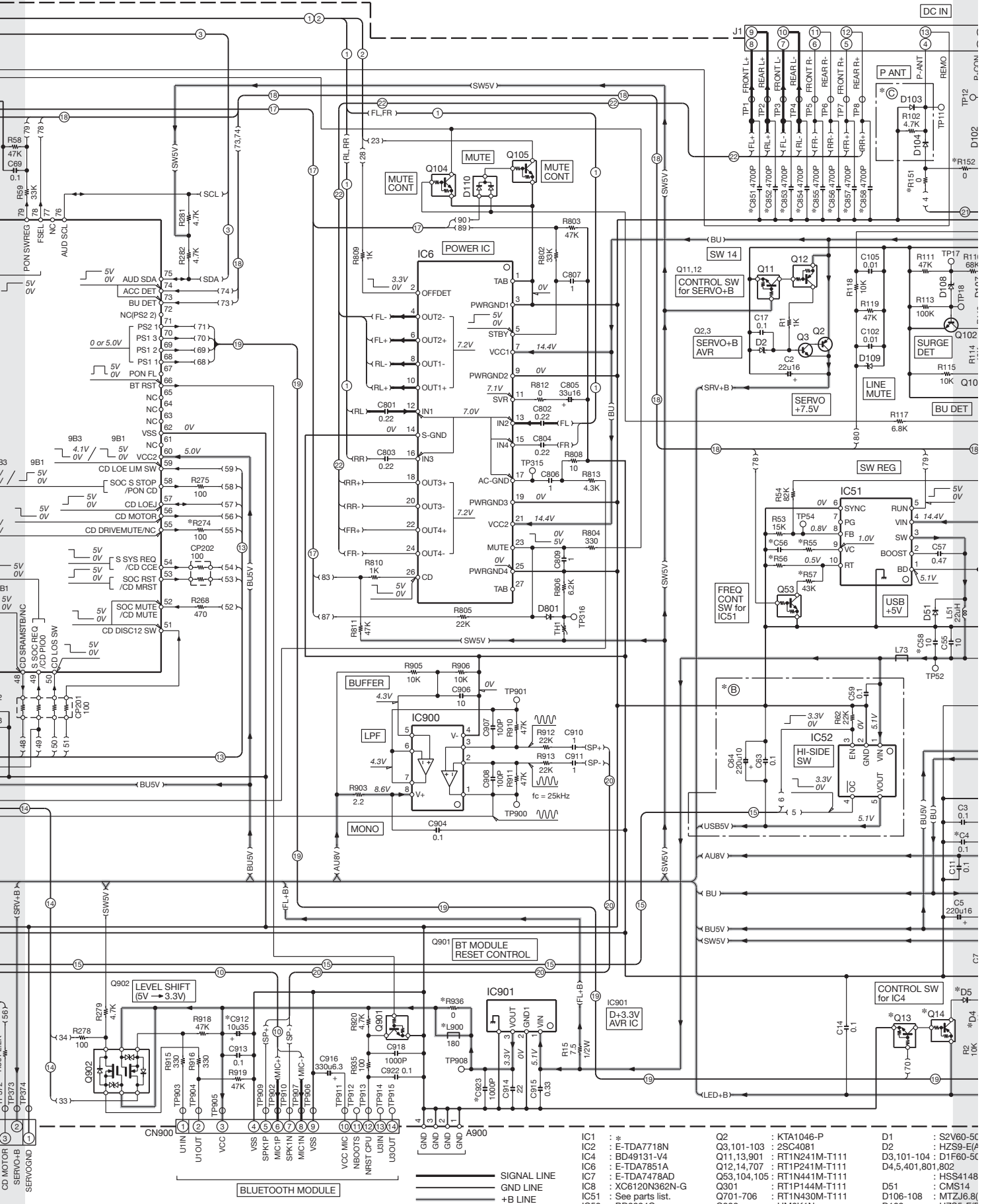


# KDC-BT40U/BT645U KDC-U546BT



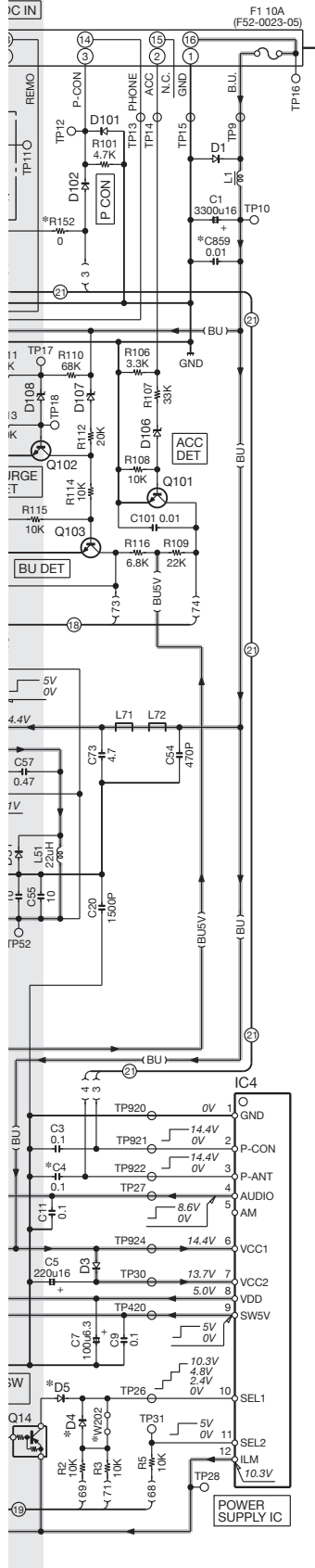
to CD PLAYER UNIT (X32-) CN2

KDC-BT40U/BT645U  
KDC-U546BT



— SIGNAL LINE  
— GND LINE  
— +B LINE

- |                       |                             |                       |
|-----------------------|-----------------------------|-----------------------|
| IC1 : *               | Q2 : KTA1046-P              | D1 : S2V60-5C         |
| IC2 : E-TDA7718N      | Q3,101-103 : 2SC4081        | D2 : HZS9-E/A         |
| IC4 : BD49131-V4      | Q11,13,901 : RT1N241M-T111  | D3,101-104 : D1F60-5C |
| IC6 : E-TDA7851A      | Q12,14,707 : RT1P241M-T111  | D4,5,401,801,802      |
| IC7 : E-TDA7478AD     | Q53,104,105 : RT1N441M-T111 | D51 : HSS4148         |
| IC8 : XC6120N362N-G   | Q901 : RT1P144M-T111        | D51 : CMS14           |
| IC9 : See parts list. | Q701-706 : RT1N430M-T111    | D106-108 : MTJZJ6-R   |
| IC52 : BD2224G        | Q902 : UM6K1N               | D109 : HZS5-E/E       |
| IC901 : *             |                             |                       |
| IC900 : NUM4565V-ZB   |                             |                       |
| IC901 : SI-3033KMSA   |                             |                       |



- : S2V60-5009F46
- : HZS9-E(A1)
- : D1F60-5063
- 01,802
- : HSS4148
- : CMS14
- : MTZJ6.8(B)
- : HZS5-E(B1)
- D110 : MC2848-T111
- D301 : DA204U
- D304-306,601-605,650
- : HZS7-E(A3)
- D311,312 : LVS10C270S030

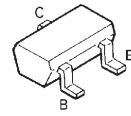
ELECTRIC UNIT (X34-662x-xx)

MODEL NAME	DESTI-NATION	UNIT No.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
KDC-BT645U	K	0-10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KDC-U546BT	M	0-21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KDC-BT30	E1	2-71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KDC-BT40U	E2	2-72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

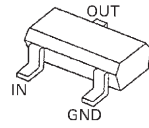
DTC114YUA



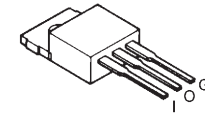
2SC4081



DTC144EUA



KTA1046-P



DAP202U  
DA204U



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

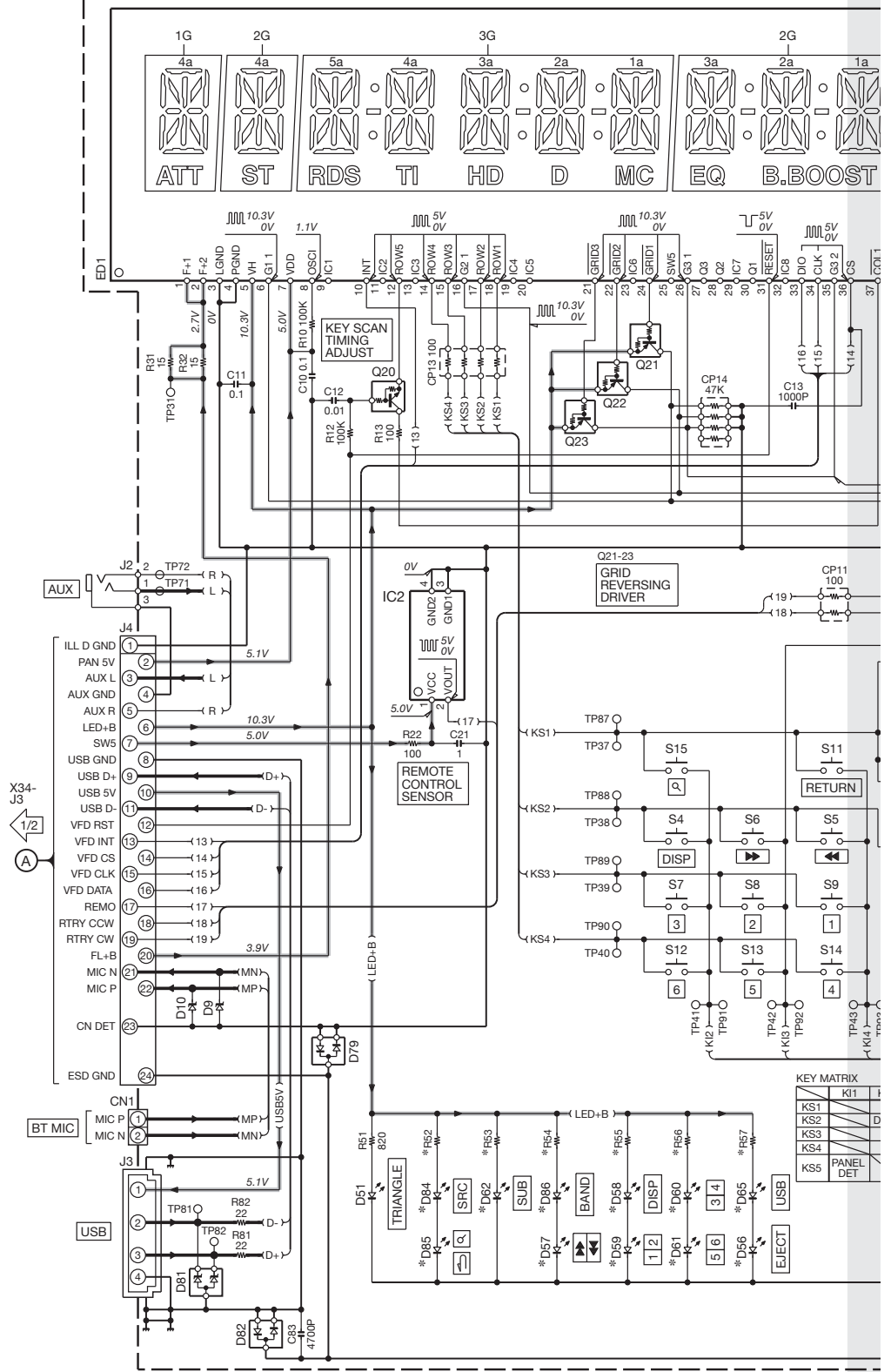
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

KDC-BT40U/BT645U  
KDC-U546BT

ANODE CONNECTION

PIN NAME	1G	2G	3G
P1	3a	3a	3a
P2	2a	2a	2a
P3	1a	1a	1a
P4	3h	3h	3h
P5	2h	2h	2h
P6	1h	1h	1h
P7	3j	3j	3j
P8	2j	2j	2j
P9	1j	1j	1j
P10	3k	3k	3k
P11	2k	2k	2k
P12	1k	1k	1k
P13	col3	col3	col3
P14	col1	col1	col1
P15	3b	3b	3b
P16	2b	2b	2b
P17	1b	1b	1b
P18	3f	3f	3f
P19	2f	2f	2f
P20	1f	1f	1f
P21	3m	3m	3m
P22	2m	2m	2m
P23	1m	1m	1m
P24	S2	S4	S6
P25	S1	S3	S5
P26	3g	3g	3g
P27	2g	2g	2g
P28	1g	1g	1g
P29	3c	3c	3c
P30	2c	2c	2c
P31	1c	1c	1c
P32	3e	3e	3e
P33	2e	2e	2e
P34	1e	1e	1e
P35	3r	3r	3r
P36	2r	2r	2r
P37	1r	1r	1r
P38	col4	col4	col4
P39	col2	col2	col2
P40	3p	3p	3p
P41	2p	2p	2p
P42	1p	1p	1p
P43	3n	3n	3n
P44	2n	2n	2n
P45	1n	1n	1n
P46	3d	3d	3d
P47	2d	2d	2d
P48	1d	1d	1d
P49	<b>BT TAG</b>	-	<b>RDS TI</b>
P50	<b>IN ATT</b>	<b>B.BOOST MC</b>	<b>EQ HD</b>
P51	-	-	-
P52	-	-	-
P53	-	-	-
P54	-	-	-
P55	-	-	-
P56	-	-	-
P57	-	-	-
P58	-	-	-
P59	-	-	-
P60	-	-	-
P61	-	-	-
P62	-	-	-
P63	-	-	-
P64	-	-	-
P65	-	-	-
P66	-	-	-
P67	-	-	-
P68	-	-	-
P69	-	-	-
P70	-	-	-
P71	-	-	-
P72	-	-	-
P73	-	-	-
P74	-	-	-
P75	-	-	-
P76	-	-	-
P77	-	-	-
P78	-	-	-
P79	-	-	-
P80	-	-	-
P81	-	-	-
P82	-	-	-
P83	-	-	-

SWITCH UNIT (X16-678x-xx)



MODEL NAME	DESTINATION	UNIT No.	D56-62,84-86	D65	R52, 54-57	R53
KDC-BT645U	M	0-10	B30-1781-05 (BLUE)	B30-1781-05 (BLUE)	820	1.5K
KDC-U546BT	K	2-71	B30-1779-05 (SR)	B30-1566-05 (RED)	620	820

IC2	: PIC95603	D9,10	: RK4.7KG(B2)
Q20	: RT1N441U-T111	D51	: B30-1566-05
Q21-23	: RT1P237M-T111	D52-62,84-86	: *
ED1	: 3-BT-2661NK	D65	: *
		D79,82	: DA204U
		D81	: HZM6.8ZMWA-E

1

2

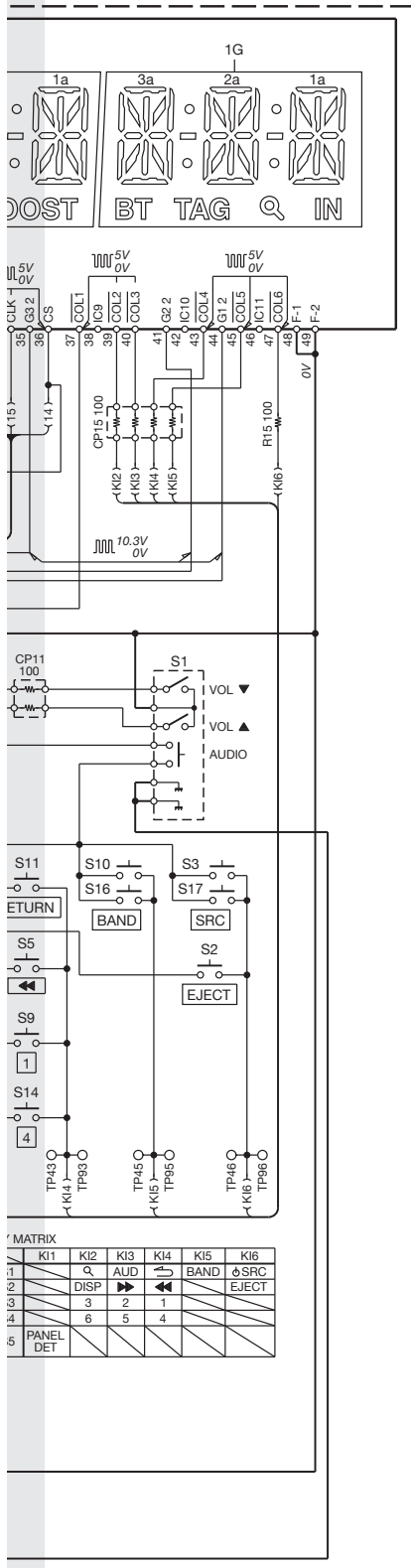
3

4

5

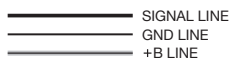
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7

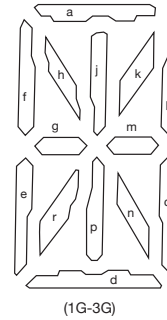
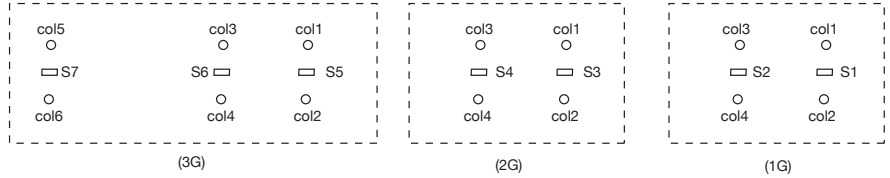


KDC-BT40U/BT645U/U546BT (2/2)

12)  
05



IWA-E



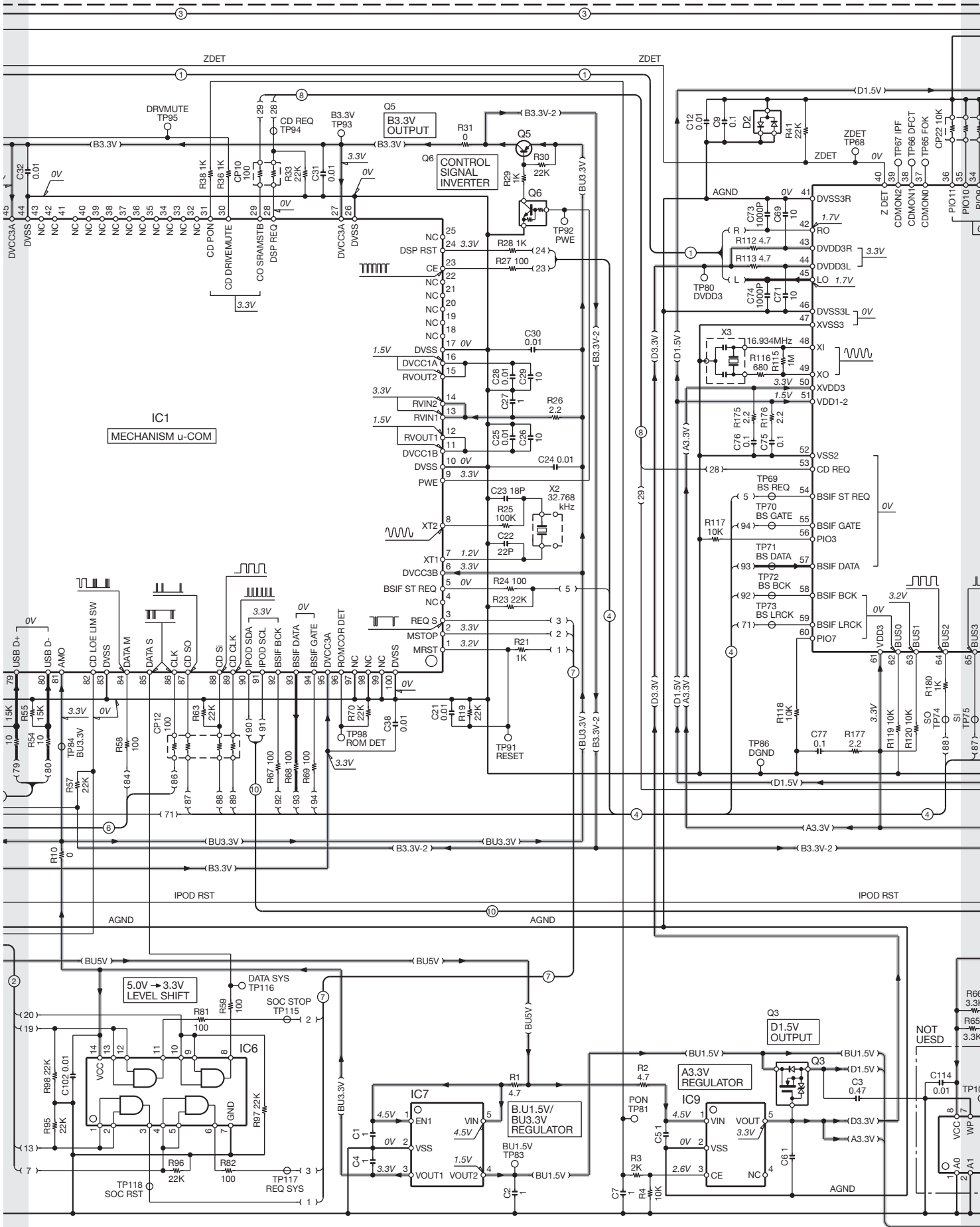
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

△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.

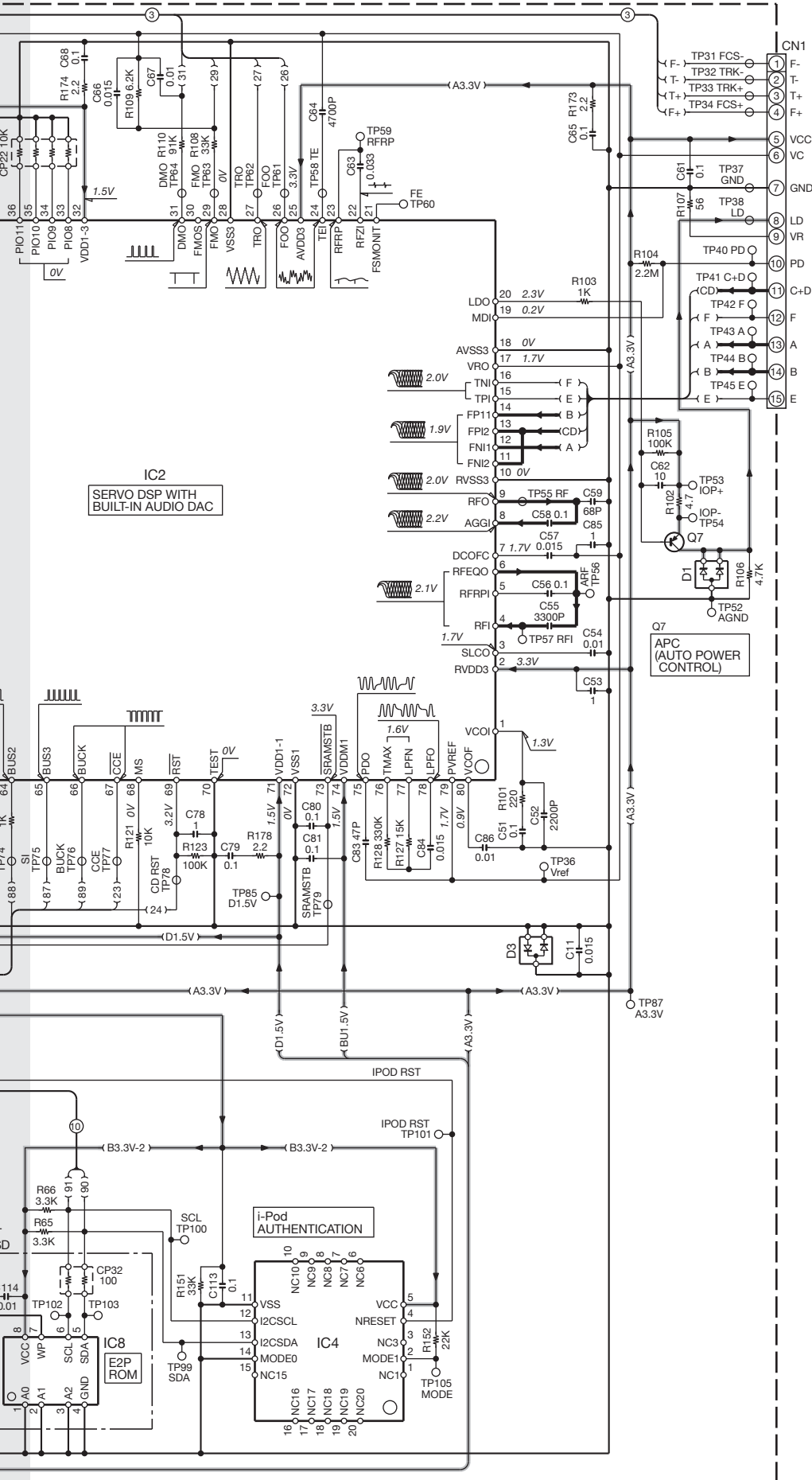
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



# KDC-BT40U/BT645U KDC-U546BT







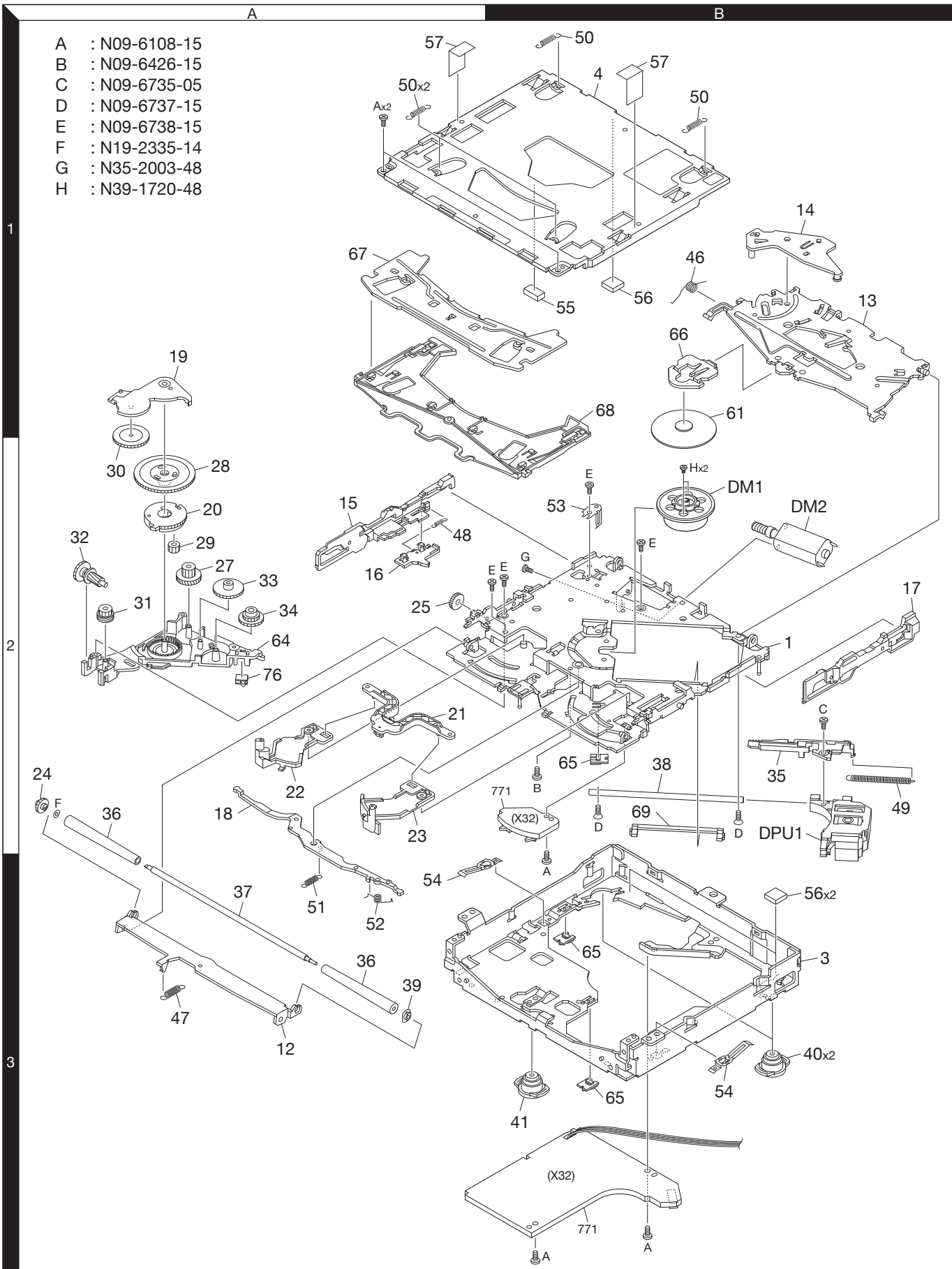
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  
 ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are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

- A : N09-6108-15
- B : N09-6426-15
- C : N09-6735-05
- D : N09-6737-15
- E : N09-6738-15
- F : N19-2335-14
- G : N35-2003-48
- H : N39-1720-48



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.	Ad	New	Parts No.	Description	Destination
<b>KDC-BT40U/BT645U/U546BT</b>					
201	1C		A02-2755-23	PLASTIC CABINET ASSY	M1
204	2C	*	A22-3261-03	SUB PANEL ASSY	
205	3D		A40-1371-11	BOTTOM PLATE	
206	2C	*	A46-1902-01	REAR COVER	
207	1D		A52-1126-01	TOP COVER	
PA1	3C	*	A64-5013-02	PANEL ASSY	K
PA1	3C	*	A64-5015-02	PANEL ASSY	E2
PA1	3C	*	A64-5017-02	PANEL ASSY	M1
RC1	1C		A70-2104-05	REMOTE CONTROLLER ASSY (RC-405)	KM1
-		*	B64-4534-00	INST. MANUAL (ENG.FRE.SPA.)	K
-		*	B64-4535-00	INST. MANUAL (ENGLISH)	E2
-		*	B64-4536-00	INST. MANUAL (FRE.GER.DUT.)	E2
-		*	B64-4537-00	INST. MANUAL (ITA.SPA.POR.)	E2
-		*	B64-4538-00	INST. MANUAL (RUSSIAN)	E2
-		*	B64-4540-00	INST. MANUAL (ENG.S-CHI.ARA.)	M1
211	1C		B07-3271-01	ESCUTCHEON	
212	3C	*	B10-5336-01	FRONT GLASS	K
212	3C	*	B10-5338-01	FRONT GLASS	E2
212	3C	*	B10-5340-01	FRONT GLASS	M1
213	3C		B07-3326-03	ESCUTCHEON	M1
213	3C		B07-3329-03	ESCUTCHEON	E2
213	3C	*	B07-3339-03	ESCUTCHEON	K
221	2C		D10-7099-03	LEVER	
222	2C		D10-7098-03	LEVER	
223	1C		D10-7106-04	LEVER	
225	3C		E29-2153-02	CONDUCTIVE RUBBER	
227	3D		E29-2154-04	CONDUCTIVE RUBBER	
△ DC1	1C		E30-6933-05	DC CORD	KM1
△ DC2	1C		E30-6934-05	DC CORD	E2
FC1	2D	*	E39-1104-05	FLAT CABLE	
230	3C		F07-2219-03	COVER	
231	2D		F11-1874-03	SHIELDING COVER	
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
236	2C		G01-4750-04	TORSION COIL SPRING	
237	2C		G01-4749-04	COMPRESSION SPRING	
238	3C		G01-3244-04	COMPRESSION SPRING	
-		*	H54-4736-03	ITEM CARTON CASE	K
-		*	H54-4739-03	ITEM CARTON CASE	E2
-		*	H54-4740-03	ITEM CARTON CASE	M1
241	3C		J19-7287-11	HOLDER	
243	1C		J22-0789-03	MOUNTING HARDWARE ASSY	
251	3C		K24-5041-04	PUSH KNOB (EJECT)	
252	3C		K25-1983-03	PUSH KNOB (SRC/BAND)	
255	3C		K24-5043-03	PUSH KNOB (SEARCH)	
257	3C		K24-5042-04	PUSH KNOB (RELEASE)	
258	3C		K25-1982-02	PUSH KNOB (PRESET)	
261	3C		K28-0337-04	KNOB ASSY (VOL)	
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	KM1
264	1C		N99-1757-15	SCREW SET	KM1
A	3D		N09-6758-05	TAPTITE SCREW	

Ref. No.	Ad	New	Parts No.	Description	Destination
B	3D		N35-2610-48	BINDING HEAD MACHINE SCREW	
C	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
D	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
E	2D		N86-2604-43	BINDING HEAD TAPTITE SCREW	
F	1D		N86-2606-48	BINDING HEAD TAPTITE SCREW	
265	2C	*	T91-1007-05	MICROPHONE ASSY	
266	1C		W01-1710-05	CARRYING CASE	KE2
268	3D	*	X34-6620-10	ELECTRIC UNIT (for IC51)	K
268	3D	*	X34-6620-21	ELECTRIC UNIT (for IC51)	M1
268	3D	*	X34-6622-72	ELECTRIC UNIT (for IC51)	E2
DME1	1D	*	X92-6360-04	MECHANISM ASSY (DXM-9B34W)	
<b>SWITCH UNIT (X16-678x-xx)</b>					
D51			B30-1566-05	LED (1608,RED)	
D56 -62			B30-1779-05	LED (1608,SR)	E2
D56 -62			B30-1781-05	LED (1608,BLUE)	KM1
D65			B30-1566-05	LED (1608,RED)	E2
D65			B30-1781-05	LED (1608,BLUE)	KM1
D84 -86			B30-1779-05	LED (1608,SR)	E2
D84 -86			B30-1781-05	LED (1608,BLUE)	KM1
C10 ,11			CK73GB1C104K	CHIP C 0.10UF K	
C12			CK73GB1H103K	CHIP C 0.010UF K	
C13			CK73GB1H102K	CHIP C 1000PF K	
C21			CK73GB1A105K	CHIP C 1.0UF K	
C83			CK73GB1H472K	CHIP C 4700PF K	
CN1			E41-1486-05	PIN ASSY	
J2			E11-0669-05	3.5D PHONE JACK	
J3			E58-1129-05	RECTANGULAR RECEPTACLE	
J4			E59-0855-05	RECTANGULAR PLUG	
CP11			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP13			RK74HB1J101J	CHIP-COM 100 J 1/16W	
CP14			RK74HB1J473J	CHIP-COM 47K J 1/16W	
CP15			RK74HB1J101J	CHIP-COM 100 J 1/16W	
R10			RK73GB2A104J	CHIP R 100K J 1/10W	
R12			RK73GB2A104J	CHIP R 100K J 1/10W	
R13			RK73GB2A101J	CHIP R 100 J 1/10W	
R15			RK73GB2A101J	CHIP R 100 J 1/10W	
R22			RK73GB2A101J	CHIP R 100 J 1/10W	
R31 ,32			RK73EB2E150J	CHIP R 15 J 1/4W	
R51			RK73EB2E821J	CHIP R 820 J 1/4W	E2
R51 ,52			RK73EB2E821J	CHIP R 820 J 1/4W	KM1
R52			RK73EB2E621J	CHIP R 620 J 1/4W	E2
R53			RK73EB2E152J	CHIP R 1.5K J 1/4W	KM1
R53			RK73EB2E821J	CHIP R 820 J 1/4W	E2
R54 -57			RK73EB2E621J	CHIP R 620 J 1/4W	E2
R54 -57			RK73EB2E821J	CHIP R 820 J 1/4W	KM1
R81 ,82			RK73GB2A220J	CHIP R 22 J 1/10W	
S1			T99-0484-05	ROTARY ENCODER	
D9 ,10		*	RKZ4.7KG(B2)	ZENER DIODE	
D79			DA204U	DIODE	
D81			HZM6.8ZMWA-E	ZENER DIODE	
D82			DA204U	DIODE	
ED1			3-BT-266INK	FLUORESCENT INDICATOR TUBE	

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△ Indicates safety critical components.

# PARTS LIST

## SWITCH UNIT (X16-678x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
IC2			PIC95603	ANALOGUE IC	
Q20			RT1N441M-T111	TRANSISTOR	
Q21 -23			RT1P237M-T111	TRANSISTOR	
<b>CD PLAYER UNIT (X32-6260-01) IN CD MECHA</b>					
C1 ,2			CK73GB1A105K	CHIP C 1.0UF K	
C3			CK73GB1A474K	CHIP C 0.47UF K	
C4 -7			CK73GB1A105K	CHIP C 1.0UF K	
C9			CK73GB1C104K	CHIP C 0.10UF K	
C11			CK73GB1H153K	CHIP C 0.015UF K	
C12			CK73GB1H103K	CHIP C 0.010UF K	
C21			CK73GB1H103K	CHIP C 0.010UF K	
C22			CC73GCH1H220J	CHIP C 22PF J	
C23			CC73GCH1H180J	CHIP C 18PF J	
C24 ,25			CK73GB1H103K	CHIP C 0.010UF K	
C26			CK73FB0J106K	CHIP C 10UF K	
C27			CK73GB1A105K	CHIP C 1.0UF K	
C28			CK73GB1H103K	CHIP C 0.010UF K	
C29			CK73FB0J106K	CHIP C 10UF K	
C30 -33			CK73GB1H103K	CHIP C 0.010UF K	
C34 ,35			CC73GCH1H150J	CHIP C 15PF J	
C36			CK73GB1H103K	CHIP C 0.010UF K	
C37			CK73GB1A105K	CHIP C 1.0UF K	
C38			CK73GB1H103K	CHIP C 0.010UF K	
C51			CK73GB1C104K	CHIP C 0.10UF K	
C52			CK73GB1H222K	CHIP C 2200PF K	
C53			CK73FB1C105K	CHIP C 1.0UF K	
C54			CK73GB1H103K	CHIP C 0.010UF K	
C55			CK73GB1H332K	CHIP C 3300PF K	
C56			CK73GB1C104K	CHIP C 0.10UF K	
C57			CK73GB1H153K	CHIP C 0.015UF K	
C58			CK73GB1C104K	CHIP C 0.10UF K	
C59			CC73GCH1H680J	CHIP C 68PF J	
C61			CK73GB1C104K	CHIP C 0.10UF K	
C62			CK73FB0J106K	CHIP C 10UF K	
C63			CK73GB1H333K	CHIP C 0.033UF K	
C64			CK73GB1H472K	CHIP C 4700PF K	
C65			CK73GB1C104K	CHIP C 0.10UF K	
C66			CK73GB1H153K	CHIP C 0.015UF K	
C67			CK73GB1H103K	CHIP C 0.010UF K	
C68			CK73GB1C104K	CHIP C 0.10UF K	
C69			CK73FB0J106K	CHIP C 10UF K	
C71			CK73FB0J106K	CHIP C 10UF K	
C73 ,74			CK73GB1H102K	CHIP C 1000PF K	
C75 -77			CK73GB1C104K	CHIP C 0.10UF K	
C78			CK73GB1A105K	CHIP C 1.0UF K	
C79 -81			CK73GB1C104K	CHIP C 0.10UF K	
C83			CC73GCH1H470J	CHIP C 47PF J	
C84			CK73GB1H153K	CHIP C 0.015UF K	
C85			CK73GB1A105K	CHIP C 1.0UF K	
C86			CK73GB1H103K	CHIP C 0.010UF K	
C92			CK73FB1A225K	CHIP C 2.2UF K	
C93			CC73GCH1H101J	CHIP C 100PF J	
C94			CC73GCH1H560J	CHIP C 56PF J	
C101,102			CK73GB1H103K	CHIP C 0.010UF K	

Ref. No.	Add	New	Parts No.	Description	Destination
C113			CK73GB1C104K	CHIP C 0.10UF K	
CN1			E41-2954-05	FLAT CABLE CONNECTOR	
CN2			E41-2083-15	FLAT CABLE CONNECTOR	
X1			L77-2964-05	CRYSTAL RESONATOR (9.00MHZ)	
X2			L77-2921-15	CRYSTAL RESONATOR (32.768KHZ)	
X3			L78-1221-05	RESONATOR (16.93MHZ)	
CP10			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP11,12			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP15			RK74GB1J103J	CHIP-COM 10K J 1/16W	
CP22			RK74GB1J103J	CHIP-COM 10K J 1/16W	
R1 ,2			RK73EB2E4R7J	CHIP R 4.7 J 1/4W	
R3			RK73GB2A202J	CHIP R 2.0K J 1/10W	
R4			RK73GB2A103J	CHIP R 10K J 1/10W	
R10			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R19			RK73GB2A223J	CHIP R 22K J 1/10W	
R21			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R23			RK73GB2A223J	CHIP R 22K J 1/10W	
R24			RK73GB2A101J	CHIP R 100 J 1/10W	
R25			RK73GB2A104J	CHIP R 100K J 1/10W	
R26			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R27			RK73GB2A101J	CHIP R 100 J 1/10W	
R28 ,29			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R30			RK73GB2A223J	CHIP R 22K J 1/10W	
R31			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R33			RK73GB2A223J	CHIP R 22K J 1/10W	
R36			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R38			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R41			RK73GB2A223J	CHIP R 22K J 1/10W	
R44			RK73GB2A223J	CHIP R 22K J 1/10W	
R45			RK73GB2A101J	CHIP R 100 J 1/10W	
R47			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R48			RK73GB2A105J	CHIP R 1.0M J 1/10W	
R49			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R50			RK73GB2A223J	CHIP R 22K J 1/10W	
R51			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R52			RK73GB2A100J	CHIP R 10 J 1/10W	
R53			RK73GB2A153J	CHIP R 15K J 1/10W	
R54			RK73GB2A100J	CHIP R 10 J 1/10W	
R55			RK73GB2A153J	CHIP R 15K J 1/10W	
R57			RK73GB2A223J	CHIP R 22K J 1/10W	
R58 ,59			RK73GB2A101J	CHIP R 100 J 1/10W	
R63			RK73GB2A223J	CHIP R 22K J 1/10W	
R65 ,66			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R67 -69			RK73GB2A101J	CHIP R 100 J 1/10W	
R70			RK73GB2A223J	CHIP R 22K J 1/10W	
R81 ,82			RK73GB2A101J	CHIP R 100 J 1/10W	
R84			RK73GB2A101J	CHIP R 100 J 1/10W	
R86			RK73GB2A101J	CHIP R 100 J 1/10W	
R88			RK73GB2A101J	CHIP R 100 J 1/10W	
R90 -94			RK73GB2A101J	CHIP R 100 J 1/10W	
R95 -98			RK73GB2A223J	CHIP R 22K J 1/10W	
R101			RK73GB2A221J	CHIP R 220 J 1/10W	
R102			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△Indicates safety critical components.



# PARTS LIST

## CD PLAYER UNIT (X32-6260-01) IN CD MECHA

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R103			RK73GB2A102J	CHIP R 1.0K J 1/10W		C56			CK73GB1H102K	CHIP C 1000PF K	
R104			RK73GB2A225J	CHIP R 2.2M J 1/10W		C57			CK73GB1A474K	CHIP C 0.47UF K	
R105			RK73GB2A104J	CHIP R 100K J 1/10W		C58			CK73FB0J106K	CHIP C 10UF K	M1
R106			RK73GB2A472J	CHIP R 4.7K J 1/10W		C59			CK73GB1C104K	CHIP C 0.10UF K	
R107			RK73GB2A560J	CHIP R 56 J 1/10W		C63			CK73GB1C104K	CHIP C 0.10UF K	
R108			RK73GB2A333J	CHIP R 33K J 1/10W		C64			CD04BK1A221M	ELECTRO 220UF 10WV	
R109			RK73GB2A622J	CHIP R 6.2K J 1/10W		C69			CK73GB1C104K	CHIP C 0.10UF K	
R110			RK73GB2A913J	CHIP R 91K J 1/10W		C73			CK73EB1H475K	CHIP C 4.7UF K	
R112,113			RK73GB2A4R7J	CHIP R 4.7 J 1/10W		C101,102			CK73GB1H103K	CHIP C 0.010UF K	
R115			RK73GB2A105J	CHIP R 1.0M J 1/10W		C105			CK73GB1H103K	CHIP C 0.010UF K	
R116			RK73GB2A681J	CHIP R 680 J 1/10W		C201			CK73GB1A105K	CHIP C 1.0UF K	
R117-121			RK73GB2A103J	CHIP R 10K J 1/10W		C202,203			CC73GCH1H220J	CHIP C 22PF J	
R123			RK73GB2A104J	CHIP R 100K J 1/10W		C204			CK73GB1C104K	CHIP C 0.10UF K	
R127			RK73GB2A153J	CHIP R 15K J 1/10W		C301,302			CD04AV1HR47M	ELECTRO 0.47UF 50WV	
R128			RK73GB2A334J	CHIP R 330K J 1/10W		C306,307			CK73GB1C104K	CHIP C 0.10UF K	
R131			RK73GB2A204J	CHIP R 200K J 1/10W		C308			CD04AV0J470M	ELECTRO 47UF 6.3WV	
R132			RK73GB2A101J	CHIP R 100 J 1/10W		C309			CK73GB1H103K	CHIP C 0.010UF K	
R136			RK73GB2A363J	CHIP R 36K J 1/10W		C310,311			CK73GB1H102K	CHIP C 1000PF K	
R137			RK73GB2A223J	CHIP R 22K J 1/10W		C401			CD04AV1C470M	ELECTRO 47UF 16WV	
R139			RK73GB2A393J	CHIP R 39K J 1/10W		C403			CD04AV1H010M	ELECTRO 1UF 50WV	
R151			RK73GB2A333J	CHIP R 33K J 1/10W		C404-407			CK73GB1A105K	CHIP C 1.0UF K	
R152			RK73GB2A223J	CHIP R 22K J 1/10W		C501			CK73GB1H102K	CHIP C 1000PF K	
R173-178			RK73GB2A2R2J	CHIP R 2.2 J 1/10W		C502			CK73GB1A105K	CHIP C 1.0UF K	
R180			RK73GB2A102J	CHIP R 1.0K J 1/10W		C505			CK73GB1A224K	CHIP C 0.22UF K	
S1 ,2			S68-0924-05	PUSH SWITCH		C506			CK73GB1C104K	CHIP C 0.10UF K	
D1			DAP202U	DIODE		C507			CC73GCH1H090D	CHIP C 9.0PF D	
D2 ,3			DA204U	DIODE		C509-511			CK73GB1A105K	CHIP C 1.0UF K	
IC1			92CD28AFG7EG0	MICROCONTROLLER IC		C512-514			CK73GB1H103K	CHIP C 0.010UF K	
IC2			TC94A92FG-301	MOS-IC		C515			CK73GB1C104K	CHIP C 0.10UF K	
IC3			BD8222EFV	ANALOGUE IC		C516			CK73GB1H103K	CHIP C 0.010UF K	
IC4			MFI341S2162	MICROPROCESSOR IC		C517			CK73GB1C104K	CHIP C 0.10UF K	
IC5			74AHCT08PW	MOS-IC		C518			CK73GB1H102K	CHIP C 1000PF K	
IC6			74LVC08APW	MOS-IC		C519			CD04AV1C470M	ELECTRO 47UF 16WV	
IC7			XC6415S001P1	MOS-IC		C520			CK73GB1C104K	CHIP C 0.10UF K	
IC9			XC6219B332MR	ANALOGUE IC		C523			CK73GB1H102K	CHIP C 1000PF K	
Q3			RUE003N02	FET		C524			CK73GB1A224K	CHIP C 0.22UF K	
Q5			2SA1577	TRANSISTOR		C525			CC73GCH1H270J	CHIP C 27PF J	
Q6			DTC114YUA	DIGITAL TRANSISTOR		C527			CC73GCH1H150J	CHIP C 15PF J	
Q7			2SB0970	TRANSISTOR		C528			CC73GCH1H471J	CHIP C 470PF J	KE2
Q9			DTC144EUA	DIGITAL TRANSISTOR		C529			CC73GCH1H471J	CHIP C 470PF J	M1
<b>ELECTRIC UNIT (X34-662x-xx)</b>						C530			CK73GB1H102K	CHIP C 1000PF K	
C1			C90-6906-05	ELECTRO 3300UF 16WV		C531			CC73GCH1H070D	CHIP C 7.0PF D	KE2
C2			CD04AV1C220M	ELECTRO 22UF 16WV		C531,532			CC73GCH1H040C	CHIP C 4.0PF C	M1
C3			CK73GB1H104K	CHIP C 0.10UF K	KE2	C532			CC73GCH1H060D	CHIP C 6.0PF D	KE2
C3 ,4			CK73GB1H104K	CHIP C 0.10UF K	M1	C533			CC73GCH1H020C	CHIP C 2.0PF C	KE2
C5			CD04BN1C221M	ELECTRO 220UF 16WV		C542			CK73GB1H103K	CHIP C 0.010UF K	E2
C7			CD04AV0J101M	ELECTRO 100UF 6.3WV		C543			CK73GB0J225K	CHIP C 2.2UF K	E2
C9			CK73GB1C104K	CHIP C 0.10UF K		C544			CC73GCH1H331J	CHIP C 330PF J	E2
C11			CK73GB1C104K	CHIP C 0.10UF K		C545,546			CC73GCH1H120J	CHIP C 12PF J	E2
C14			CK73GB1C104K	CHIP C 0.10UF K		C601,602			CK73GB1C104K	CHIP C 0.10UF K	K
C17			CK73GB1C104K	CHIP C 0.10UF K		C603			CD04AV0J470M	ELECTRO 47UF 6.3WV	K
C20			CK73GB1H152K	CHIP C 1500PF K		C701-706			CD04AV1V100M	ELECTRO 10UF 35WV	K
C54			CC73GCH1H471J	CHIP C 470PF J		C703-706			CD04AV1V100M	ELECTRO 10UF 35WV	M1
C55			CK73FB0J106K	CHIP C 10UF K		C703,704			CD04AV1V100M	ELECTRO 10UF 35WV	E2
						C801-804			CK73GB1A224K	CHIP C 0.22UF K	

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-662x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination
C805			CD04AV1C330M	ELECTRO 33UF 16WV	
C806,807			CK73GB1A105K	CHIP C 1.0UF K	
C809			CK73GB1A105K	CHIP C 1.0UF K	
C851-858			CK73GB1H472K	CHIP C 4700PF K	E2
C859			CK73GB1H103K	CHIP C 0.010UF K	E2
C875,876			CC73GCH1H681J	CHIP C 680PF J	E2
C904			CK73GB1C104K	CHIP C 0.10UF K	
C906			CK73FB0J106K	CHIP C 10UF K	
C907,908			CC73GCH1H101J	CHIP C 100PF J	
C910,911			CK73GB1A105K	CHIP C 1.0UF K	
C912			CD04AV1V100M	ELECTRO 10UF 35WV	
C913			CK73GB1C104K	CHIP C 0.10UF K	
C914			CK73EB0J226K	CHIP C 22UF K	
C915			CK73FB1H334K	CHIP C 0.33UF K	
C916			CD04BK0J331M	ELECTRO 330UF 6.3WV	
C918			CK73GB1H102K	CHIP C 1000PF K	
C920,921			CK73GB1A105K	CHIP C 1.0UF K	
C922			CK73GB1C104K	CHIP C 0.10UF K	
C923			CK73GB1H102K	CHIP C 1000PF K	
CN2			E41-1822-05	FLAT CABLE CONNECTOR	
CN900			E41-3043-05	PIN ASSY	
△ J1			E58-0991-05	RECTANGULAR RECEPTACLE	
J3			E58-1095-05	RECTANGULAR RECEPTACLE	
J4			E56-0855-05	CYLINDRICAL RECEPTACLE	K
J5		*	E63-0972-05	PIN JACK	K
J5			E63-0973-05	PIN JACK	M1
J5			E63-0974-05	PIN JACK	E2
W551	2D		E30-6803-05	CORD WITH PLUG	
△ L1			L33-2459-05	CHOKE COIL ASSY	
L51			L33-2462-05	SMALL FIXED INDUCTOR	
L71 -73			L92-0639-05	CHIP FERRITE	
L401			L40-4791-58	SMALL FIXED INDUCTOR	
L501			L40-4791-58	SMALL FIXED INDUCTOR	
L502,503			L33-1031-05	SMALL FIXED INDUCTOR	
L504			L40-2781-58	SMALL FIXED INDUCTOR (0.27U)	
L505			L40-4791-58	SMALL FIXED INDUCTOR	KE2
L506			L40-1091-58	SMALL FIXED INDUCTOR (1.0U)	M1
L506			L40-4781-58	SMALL FIXED INDUCTOR	KE2
L507			L40-1891-58	SMALL FIXED INDUCTOR (1.8U)	KE2
L507			L40-3391-58	SMALL FIXED INDUCTOR (3.3U)	M1
L508			L40-4781-58	SMALL FIXED INDUCTOR	
L551			L31-0993-05	FM-RF COIL	
L750,751			L92-0648-05	CHIP FERRITE	
L900			L92-0662-05	CHIP FERRITE	
X1		*	L78-1237-05	RESONATOR	
X2			L77-2921-15	CRYSTAL RESONATOR (32.768KHZ)	
X3			L77-3825-05	CRYSTAL RESONATOR (4.332MHZ)	E2
X501			L77-3824-05	CRYSTAL RESONATOR (4.000MHZ)	
G	2D		N80-3008-48	PAN HEAD TAPTITE SCREW	
H	2D		N83-3005-48	PAN HEAD TAPTITE SCREW	
J	2D		N83-3016-48	PAN HEAD TAPTITE SCREW	
K	2D		N86-2606-48	BINDING HEAD TAPTITE SCREW	
L	2D		N89-3010-48	BINDING HEAD TAPTITE SCREW	
CP201			RK74HB1J101J	CHIP-COM 100 J 1/16W	

Ref. No.	Add	New	Parts No.	Description	Destination
CP202,203			RK74GA1J101J	CHIP-COM 100 J 1/16W	
R1			RD14BB2C102J	RD 1.0K J 1/6W	
R2 ,3			RK73GB2A103J	CHIP R 10K J 1/10W	
R5			RK73GB2A103J	CHIP R 10K J 1/10W	
R15			RD14DB2H7R5J	SMALL-RD 7.5 J 1/2W	
R53			RK73GH2A153D	CHIP R 15K D 1/10W	
R54			RK73GH2A823D	CHIP R 82K D 1/10W	
R55			RK73GB2A103J	CHIP R 10K J 1/10W	
R56			RK73GH2A123D	CHIP R 12K D 1/10W	KE2
R56			RK73GH2A153D	CHIP R 15K D 1/10W	M1
R57			RK73GH2A433D	CHIP R 43K D 1/10W	M1
R58			RK73GB2A473J	CHIP R 47K J 1/10W	
R59			RK73GB2A333J	CHIP R 33K J 1/10W	
R62			RK73GB2A223J	CHIP R 22K J 1/10W	
R101			RD14BB2C472J	RD 4.7K J 1/6W	K
R101,102			RD14BB2C472J	RD 4.7K J 1/6W	E2M1
R106			RD14BB2C332J	RD 3.3K J 1/6W	
R107			RD14BB2C333J	RD 33K J 1/6W	
R108			RK73GB2A103J	CHIP R 10K J 1/10W	
R109			RK73GB2A223J	CHIP R 22K J 1/10W	
R110			RK73FB2B683J	CHIP R 68K J 1/8W	
R111			RK73GB2A473J	CHIP R 47K J 1/10W	
R112			RD14BB2C203J	RD 20K J 1/6W	
R113			RK73GB2A104J	CHIP R 100K J 1/10W	
R114,115			RK73GB2A103J	CHIP R 10K J 1/10W	
R116,117			RK73GB2A682J	CHIP R 6.8K J 1/10W	
R118			RD14BB2C103J	RD 10K J 1/6W	
R119			RK73GB2A473J	CHIP R 47K J 1/10W	
R151			RK73GB2A000J	CHIP R 0.0 J 1/10W	M1
R152			RK73GB2A000J	CHIP R 0.0 J 1/10W	E2
R201			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R203			RK73GB2A103J	CHIP R 10K J 1/10W	
R204			RK73GB2A104J	CHIP R 100K J 1/10W	
R205			RK73GB2A473J	CHIP R 47K J 1/10W	
R207,208			RK73GB2A473J	CHIP R 47K J 1/10W	
R209,210			RK73GB2A471J	CHIP R 470 J 1/10W	
R218			RK73GB2A223J	CHIP R 22K J 1/10W	
R225			RK73GB2A473J	CHIP R 47K J 1/10W	E2M1
R226			RK73GB2A223J	CHIP R 22K J 1/10W	M1
R226			RK73GB2A473J	CHIP R 47K J 1/10W	K
R262,263			RK73GB2A473J	CHIP R 47K J 1/10W	
R268			RK73GB2A471J	CHIP R 470 J 1/10W	
R275			RK73GB2A101J	CHIP R 100 J 1/10W	
R278			RK73GB2A101J	CHIP R 100 J 1/10W	
R279			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R281,282			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R301			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R302			RK73GB2A101J	CHIP R 100 J 1/10W	
R306			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R307			RK73GB2A101J	CHIP R 100 J 1/10W	
R318			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R320			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R325			RK73GB2A000J	CHIP R 0.0 J 1/10W	
R327,328			RK73GB2A473J	CHIP R 47K J 1/10W	
R330			RK73GB2A101J	CHIP R 100 J 1/10W	

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-662x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R331			RK73GB2A392J	CHIP R 3.9K J 1/10W		R805			RK73GB2A223J	CHIP R 22K J 1/10W	
R332			RK73GB2A101J	CHIP R 100 J 1/10W		R806			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R333			RK73GB2A102J	CHIP R 1.0K J 1/10W		R808			RK73GB2A100J	CHIP R 10 J 1/10W	
R334			RD14BB2C102J	RD 1.0K J 1/6W		R809			RD14BB2C102J	RD 1.0K J 1/6W	
R336,337			RK73GB2A222J	CHIP R 2.2K J 1/10W		R810			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R338			RK73GB2A102J	CHIP R 1.0K J 1/10W		R811			RK73GB2A473J	CHIP R 47K J 1/10W	
R339			RK73GB2A222J	CHIP R 2.2K J 1/10W		R812			RK73EB2E000J	CHIP R 0.0 J 1/4W	
R340			RK73GB2A225J	CHIP R 2.2M J 1/10W		R813			RK73GB2A432J	CHIP R 4.3K J 1/10W	
R341			RK73GB2A101J	CHIP R 100 J 1/10W		R903			RK73GB2A2R2J	CHIP R 2.2 J 1/10W	
R342			RK73GB2A392J	CHIP R 3.9K J 1/10W		R905,906			RK73GB2A103J	CHIP R 10K J 1/10W	
R343			RK73GB2A102J	CHIP R 1.0K J 1/10W		R910,911			RK73GB2A473J	CHIP R 47K J 1/10W	
R344,345			RD14BB2C4R7J	RD 4.7 J 1/6W		R912,913			RK73GB2A223J	CHIP R 22K J 1/10W	
R346			RD14BB2C2R2J	RD 2.2 J 1/6W		R915,916			RK73GB2A331J	CHIP R 330 J 1/10W	
R347			RK73GB2A102J	CHIP R 1.0K J 1/10W		R918,919			RK73GB2A473J	CHIP R 47K J 1/10W	
R348,349			RK73GB2A103J	CHIP R 10K J 1/10W		R920			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R350,351			RK73GB2A104J	CHIP R 100K J 1/10W		R935			RK73GB2A101J	CHIP R 100 J 1/10W	
R352,353			RD14BB2C100J	RD 10 J 1/6W		S3			S70-0959-05	TACT SWITCH	
R354,355			RK73GB2A101J	CHIP R 100 J 1/10W		D1			S2V60-5009F46	DIODE	
R401			RK73GB2A103J	CHIP R 10K J 1/10W		D2			HZS9-E(A1)	ZENER DIODE	
R505			RK73GB2A472J	CHIP R 4.7K J 1/10W		D3			D1F60-5063	DIODE	
R506			RK73EB2E220J	CHIP R 22 J 1/4W		D4 ,5			HSS4148	DIODE	M1
R507,508			RK73GB2A221J	CHIP R 220 J 1/10W		D51			CMS14	DIODE	
R513,514			RK73GB2A474J	CHIP R 470K J 1/10W	M1	D101-104			D1F60-5063	DIODE	E2M1
R513,514			RK73GB2A684J	CHIP R 680K J 1/10W	KE2	D101,102			D1F60-5063	DIODE	K
R515,516			RK73GB2A562J	CHIP R 5.6K J 1/10W		D106-108			MTZJ6.8(B)	ZENER DIODE	
R525			RK73GB2A101J	CHIP R 100 J 1/10W	M1	D109			HZS5-E(B1)	ZENER DIODE	
R541			RD14BB2C222J	RD 2.2K J 1/6W	E2	D110			MC2848-T111	DIODE	
R542,543			RK73GB2A222J	CHIP R 2.2K J 1/10W	E2	D301			DA204U	DIODE	
R545			RK73GB2A102J	CHIP R 1.0K J 1/10W	E2	D304-306			HZS7-E(A3)	ZENER DIODE	
R601,602			RD14BB2C100J	RD 10 J 1/6W	K	D311,312			LVS10C270S030	VARISTOR	
R603			RD14BB2C4R7J	RD 4.7 J 1/6W	K	D401			HSS4148	DIODE	
R604			RK73GB2A102J	CHIP R 1.0K J 1/10W	K	D601-605			HZS7-E(A3)	ZENER DIODE	K
R605			RD14BB2C101J	RD 100 J 1/6W	K	D650			HZS7-E(A3)	ZENER DIODE	
R606,607			RD14BB2C472J	RD 4.7K J 1/6W	K	D801,802			HSS4148	DIODE	
R608			RD14BB2C101J	RD 100 J 1/6W	K	IC1		*	W05-1543-00	MICROCONTROLLER IC	
R609,610			RD14BB2C472J	RD 4.7K J 1/6W	K	IC2			E-TDA7718N	ANALOGUE IC	
R611			RD14BB2C432J	RD 4.3K J 1/6W	K	IC4			BD49131-V4	ANALOGUE IC	
R612			RD14BB2C472J	RD 4.7K J 1/6W	K	IC6			E-TDA7851A	ANALOGUE IC	
R613,614			RK73GB2A100J	CHIP R 10 J 1/10W	K	IC7			E-TDA7478AD	ANALOGUE IC	E2
R615			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	K	IC8			XC6120N362N-G	MOS-IC	
R616			RK73GB2A473J	CHIP R 47K J 1/10W	K	IC51		2D	Impossible to replace	ANALOGUE IC (See exploded view)	
R617-620			RK73GB2A104J	CHIP R 100K J 1/10W	K	IC52			BD2224G	MOS-IC	
R650			RK73EB2E471J	CHIP R 470 J 1/4W		IC501			TEF6606T/V5	ANALOGUE IC	KM1
R701,702			RK73GB2A331J	CHIP R 330 J 1/10W	K	IC501			TEF6606T/V5S3	ANALOGUE IC	E2
R703,704			RK73GB2A223J	CHIP R 22K J 1/10W	K	IC900			NJM4565V-ZB	ANALOGUE IC	
R705,706			RK73FB2B181J	CHIP R 180 J 1/8W	K	IC901			SI-3033KMSA	ANALOGUE IC	
R707,708			RK73GB2A331J	CHIP R 330 J 1/10W	KM1	Q2			KTA1046-P	TRANSISTOR	
R709,710			RK73GB2A223J	CHIP R 22K J 1/10W	KM1	Q3			2SC4081	TRANSISTOR	
R711,712			RK73FB2B181J	CHIP R 180 J 1/8W	KM1	Q11			RT1N241M-T111	TRANSISTOR	
R713,714			RK73GB2A331J	CHIP R 330 J 1/10W		Q12			RT1P241M-T111	TRANSISTOR	
R715,716			RK73GB2A223J	CHIP R 22K J 1/10W		Q13			RT1N241M-T111	TRANSISTOR	M1
R717,718			RK73FB2B181J	CHIP R 180 J 1/8W		Q14			RT1P241M-T111	TRANSISTOR	M1
R802			RK73GB2A333J	CHIP R 33K J 1/10W		Q53			RT1N441M-T111	TRANSISTOR	M1
R803			RK73GB2A473J	CHIP R 47K J 1/10W							
R804			RK73GB2A331J	CHIP R 330 J 1/10W							

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△ Indicates safety critical components.

# PARTS LIST

## ELECTRIC UNIT (X34-662x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
Q101-103			2SC4081	TRANSISTOR	
Q104,105			RT1N441M-T111	TRANSISTOR	
Q301			RT1P144M-T111	TRANSISTOR	
Q701-706			RT1N430M-T111	TRANSISTOR	K
Q703-706			RT1N430M-T111	TRANSISTOR	M1
Q705,706			RT1N430M-T111	TRANSISTOR	E2
Q707			RT1P241M-T111	TRANSISTOR	
Q901			RT1N241M-T111	TRANSISTOR	
Q902			UM6K1N	DUAL FET	
TH1			PRF18BE471QS2	POSITIVE RESISTOR	
A900		*	W02-5374-05	ELECTRIC CIRCUIT MODULE	
<b>MECHANISM ASSY (X92-6360-04) DXM-9B34W</b>					
1	2B		A10-5450-63	CHASSIS ASSY	
3	3B		A10-5452-41	CHASSIS	
4	1B		A10-5453-32	CHASSIS	
12	3A		D10-4993-52	LEVER	
13	1B		D10-4991-22	ARM	
14	1B		D10-4992-13	ARM	
15	2A		D10-4994-02	SLIDER	
16	2A		D10-4995-03	SLIDER	
17	2B		D10-4996-02	SLIDER	
18	2A		D10-4997-03	LEVER	
19	1A		D10-4998-03	ARM	
20	2A		D10-4999-03	ARM	
21	2A		D10-7001-03	ARM	
22	2A		D10-7002-03	ARM	
23	2A		D10-7003-03	ARM	
24	2A		D13-2445-04	GEAR	
25	2A		D13-2446-04	GEAR	
27	2A		D13-2448-04	GEAR	
28	2A		D13-2449-04	GEAR	
29	2A		D13-2450-04	GEAR	
30	2A		D13-2451-04	GEAR	
31	2A		D13-2452-04	GEAR	
32	2A		D13-2453-04	GEAR	
33	2A		D13-2454-04	GEAR	
34	2A		D13-2455-04	GEAR	
35	2B		D13-2456-03	RACK (GEAR)	
36	2A		D14-1028-04	ROLLER	
37	3A		D21-2507-04	SHAFT	
38	2B		D21-2508-04	SHAFT	
39	3A		D23-0963-04	RETAINER	
40	3B		D39-0277-15	DAMPER	
41	3B		D39-0278-15	DAMPER	
46	1B		G01-4682-34	TORSION COIL SPRING	
47	3A		G01-4683-24	EXTENSION SPRING	
48	2A		G01-4684-04	EXTENSION SPRING	
49	2B		G01-4685-04	EXTENSION SPRING	
50	1B		G01-4686-14	EXTENSION SPRING	
51	3A		G01-4688-14	EXTENSION SPRING	
52	3A		G01-4692-24	TORSION COIL SPRING	
53	2B		G02-1587-04	FLAT SPRING	
54	3A		G02-1588-04	FLAT SPRING	
55	1B		G13-1297-04	CUSHION	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
56	1B		G13-1299-14	CUSHION	
57	1A		G16-1715-04	SHEET	
61	1B		J11-0675-03	CLAMPER	
64	2A		J19-7210-21	HOLDER	
65	2B		J19-7225-04	HOLDER	
66	1B		J22-0706-03	MOUNTING HARDWARE	
67	1A		J22-0707-12	MOUNTING HARDWARE	
68	1B		J90-1166-11	GUIDE	
69	2B		J90-1168-03	RAIL	
A	1A		N09-6108-15	TAPTITE SCREW (M2X3.5)	
B	2B		N09-6426-15	MACHINE SCREW	
C	2B		N09-6735-05	TAPTITE SCREW	
D	2B		N09-6737-15	MACHINE SCREW	
E	2B		N09-6738-15	TAPTITE SCREW	
F	2A		N19-2335-14	FLAT WASHER	
G	2B		N35-2003-48	BINDING HEAD MACHINE SCREW	
H	2B		N39-1720-48	PAN HEAD MACHINE SCREW	
76	2A		S68-0921-05	PUSH SWITCH	
DM1	2B		X94-2090-00	SPINDLE MOTOR ASSY	
DM2	2B		X94-2100-00	FEED MOTOR ASSY (LOAD/SLED)	
DPU1	2B		X93-2280-00	OPTICAL PICKUP ASSY	

K: KDC-BT645U M1: KDC-U546BT E2: KDC-BT40U

△Indicates safety critical components.



# SPECIFICATIONS

## KDC-BT40U

### FM tuner section

Frequency range (50kHz space)..... 87.5MHz~108.0MHz  
Usable sensitivity (S/N=26dB)..... 1.0μV/75Ω  
Quieting sensitivity (DIN S/N=46dB) ..... 2.5μV/75Ω  
Frequency response (±3dB) ..... 30Hz~15kHz  
Signal to noise ratio (MONO)..... 63dB  
Stereo separation (1kHz)..... 40dB

### MW tuner section

Frequency range (9kHz space)..... 531kHz~1611kHz  
Usable sensitivity (S/N=20dB)..... 36μV

### LW tuner section

Frequency range ..... 153kHz~279kHz  
Usable sensitivity (S/N=20dB)..... 57μV

### CD player section

Laser diode.....GaAlAs  
Digital filter (D/A)..... 8 Times Over Sampling  
D/A converter ..... 24Bit  
Spindle speed .....500~200rpm (CLV)  
Wow & Flutter .....Below Measurable Limit  
Frequency response (±1dB) ..... 20Hz~20kHz  
Total harmonic distortion (1kHz)..... 0.01%  
Signal to noise ratio (1kHz)..... 105dB  
Dynamic range ..... 93dB  
MP3 decode..... Compliant with MPEG-1/2 Audio Layer-3  
WMA decode..... Compliant with Windows Media Audio  
AAC decode ..... AAC-LC “.m4a” files

### USB Interface

USB standard ..... USB1.1/2.0 (Full speed)  
File system ..... FAT16/32  
MP3 decode..... Compliant with MPEG-1/2 Audio Layer-3  
WMA decode..... Compliant with Windows Media Audio  
AAC decode ..... AAC-LC “.m4a” files  
Maximum supply current..... 500mA

### Bluetooth section

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)

### Audio section

Maximum output power ..... 50W x 4  
Output power (DIN 45324, +B=14.4V) ..... 30W x 4  
Speaker impedance .....4~8Ω  
Tone action  
Bass ..... 100Hz±8dB  
Middle .....1kHz±8dB  
Treble .....10kHz±8dB  
Preout level / Load (CD) ..... 2000mV/10kΩ

Preout impedance .....≤600Ω

### Auxiliary input

Frequency response (±3dB) .....20Hz~20kHz  
Input maximum voltage..... 1200mV  
Input impedance ..... 10kΩ

### General

Operating voltage (10.5~16V allowable)..... 14.4V  
Maximum current consumption ..... 10A  
Installation size (W x H x D)..... 182 x 53 x 155mm  
Weight .....1.3kg

## KDC-BT645U

### FM tuner section

Frequency range (200kHz space)..... 87.9MHz~107.9MHz  
Usable sensitivity (S/N=26dB)..... 11.2dBf (1.0μV/75Ω)  
Quieting sensitivity (DIN S/N=46dB) ..... 19.2dBf (2.5μV/75Ω)  
Frequency response (±3dB) ..... 30Hz~15kHz  
Signal to noise ratio (MONO)..... 63dB  
Stereo separation (1kHz) ..... 40dB

### AM tuner section

Frequency range (10kHz space)..... 530kHz~1700kHz  
Usable sensitivity (S/N=20dB)..... 31dBμ (36μV)

### CD player section

Laser diode.....GaAlAs  
Digital filter (D/A)..... 8 Times Over Sampling  
D/A converter ..... 24Bit  
Spindle speed .....500~200rpm (CLV)  
Wow & Flutter .....Below Measurable Limit  
Frequency response (±1dB) ..... 20Hz~20kHz  
Total harmonic distortion (1kHz)..... 0.01%  
Signal to noise ratio (1kHz)..... 105dB  
Dynamic range ..... 93dB  
MP3 decode..... Compliant with MPEG-1/2 Audio Layer-3  
WMA decode..... Compliant with Windows Media Audio  
AAC decode ..... AAC-LC “.m4a” files

### USB Interface

USB standard ..... USB1.1/2.0 (Full speed)  
File system ..... FAT16/32  
MP3 decode..... Compliant with MPEG-1/2 Audio Layer-3  
WMA decode..... Compliant with Windows Media Audio  
AAC decode ..... AAC-LC “.m4a” files  
Maximum supply current..... 500mA

### Bluetooth section

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)

## SPECIFICATIONS

### Audio section

Maximum output power .....	50W x 4
Full bandwidth power (at less than 1% THD).....	22W x 4
Speaker impedance .....	4~8Ω
Tone action	
Bass .....	100Hz±8dB
Middle .....	1kHz±8dB
Treble .....	10kHz±8dB
Preout level/Load (CD/CD-CH) .....	2000mV/10kΩ
Preout impedance .....	≤600Ω

### Auxiliary input

Frequency response (±3dB) .....	20Hz~20kHz
Input maximum voltage .....	1200mV
Input impedance .....	10kΩ

### General

Operating voltage (10.5~16V allowable).....	14.4V
Maximum current consumption .....	10A
Installation size (W x H x D).....	182 x 53 x 155mm
.....	7-3/16 x 2-1/16 x 6-1/8inch
Weight .....	1.3kg (2.9lbs)

## KDC-U546BT

### FM tuner section

Frequency range	
200kHz space .....	87.9 MHz~107.9MHz
50kHz space .....	87.5MHz~108.0MHz
Usable sensitivity (S/N=26dB).....	11.2dBf (1.0μV/75Ω)
Quieting sensitivity (DIN S/N=46dB) .....	19.2dBf (2.5μV/75Ω)
Frequency response (±3dB) .....	30Hz~15kHz
Signal to noise ratio (MONO).....	63dB
Stereo separation (1kHz) .....	40dB

### AM tuner section

Frequency range	
Band1 (MW) .....	530kHz~1700kHz (10kHz space)
.....	531kHz~1611kHz (9kHz space)
Band2 (SW1).....	2940kHz~7735kHz (5kHz space)
Band3 (SW2).....	9500kHz~10135kHz
/ 11580kHz~18135kHz (5kHz space)	
Usable sensitivity (S/N=20dB)	
MW.....	31dBμ (36μV)
SW .....	32dBμ (40μV)

### CD player section

Laser diode.....	GaAlAs
Digital filter (D/A).....	8 Times Over Sampling
D/A converter .....	24Bit
Spindle speed .....	500~200rpm (CLV)

Wow & Flutter .....	Below Measurable Limit
Frequency response (±1dB) .....	20Hz~20kHz
Total harmonic distortion (1kHz).....	0.01%
Signal to noise ratio (1kHz).....	105dB
Dynamic range .....	93dB
MP3 decode.....	Compliant with MPEG-1/2 Audio Layer-3
WMA decode.....	Compliant with Windows Media Audio

### USB Interface

USB standard .....	USB1.1/2.0 (Full speed)
File system .....	FAT16/32
MP3 decode.....	Compliant with MPEG-1/2 Audio Layer-3
WMA decode.....	Compliant with Windows Media Audio
Maximum supply current.....	500mA

### Bluetooth section

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)

### Audio section

Maximum output power .....	50W x 4
Full bandwidth power (at less than 1% THD).....	22W x 4
Speaker impedance .....	4~8Ω
Tone action	
Bass .....	100Hz±8dB
Middle .....	1kHz±8dB
Treble .....	10kHz±8dB
Preout level / Load (CD) .....	2000mV/10kΩ
Preout impedance .....	≤600Ω

### Auxiliary input

Frequency response (±3dB) .....	20Hz~20kHz
Input maximum voltage.....	1200mV
Input impedance .....	10kΩ

### General

Operating voltage (10.5~16V allowable).....	14.4V
Maximum current consumption .....	10A
Installation size (W x H x D).....	182 x 53 x 155mm
Weight .....	1.3kg

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

**DANGER:**

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

