

CD RECEIVER

KDC-1032
KDC-132/CR
KDC-133/233
KDC-234SGY

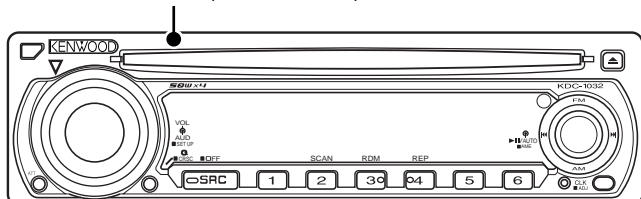
SERVICE MANUAL

KENWOOD

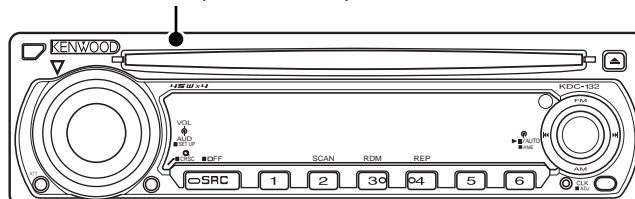
Kenwood Corporation

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B53-0326-00 (N) 1699

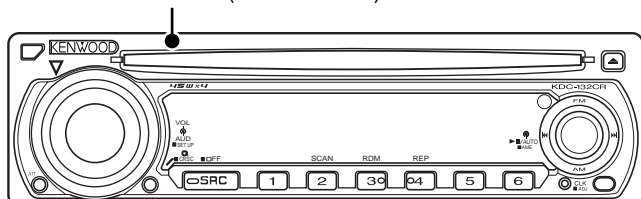
Panel assy
KDC-1032 (A64-3771-02)



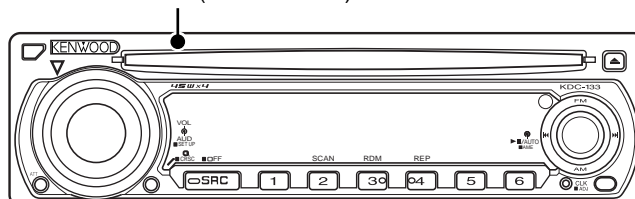
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KDC-132 (A64-3770-02)



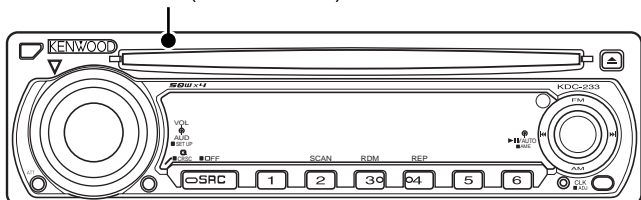
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KDC-132CR (A64-3854-02)



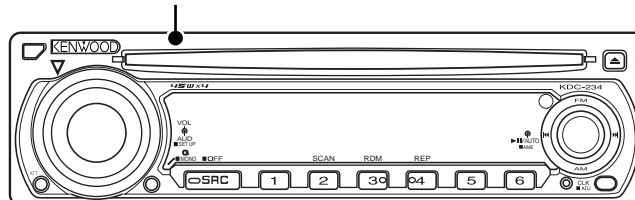
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KDC-133 (A64-3774-02)



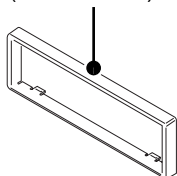
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KDC-233 (A64-3775-02)



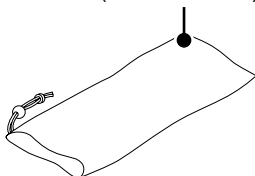
Panel assy
KDC-234SGY (A64-3773-02)



* Escutcheon
(B07-xxxx-xx)



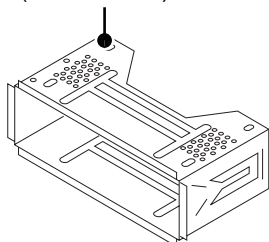
* Carrying case
(W01-1661-05)



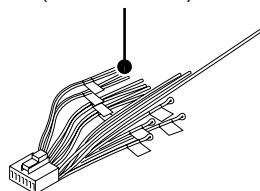
SPARE TDF PANEL

MAIN UNIT NAME	TDF PARTS No.	TDF NAME
KDC-1032	Y33-2390-60	TDF-61DB
KDC-132	Y33-2390-61	TDF-61D
KDC-132CR	Y33-2390-62	TDF-61DCR
KDC-133	Y33-2390-64	TDF-133
KDC-233	Y33-2390-63	TDF-233
KDC-234SGY	Y33-2390-67	TDF-234SG

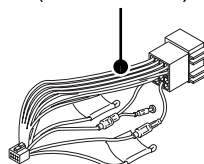
Mounting hardware assy
(J21-9716-03)



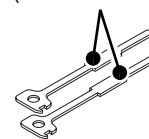
* DC cord
(E30-6415-15)



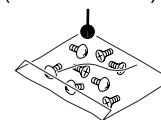
* DC cord
(E30-6427-05)



Lever
(D10-4589-04) x2



* Screw set
(N99-1757-05)



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



* Antenna adaptor
(T90-0523-05)

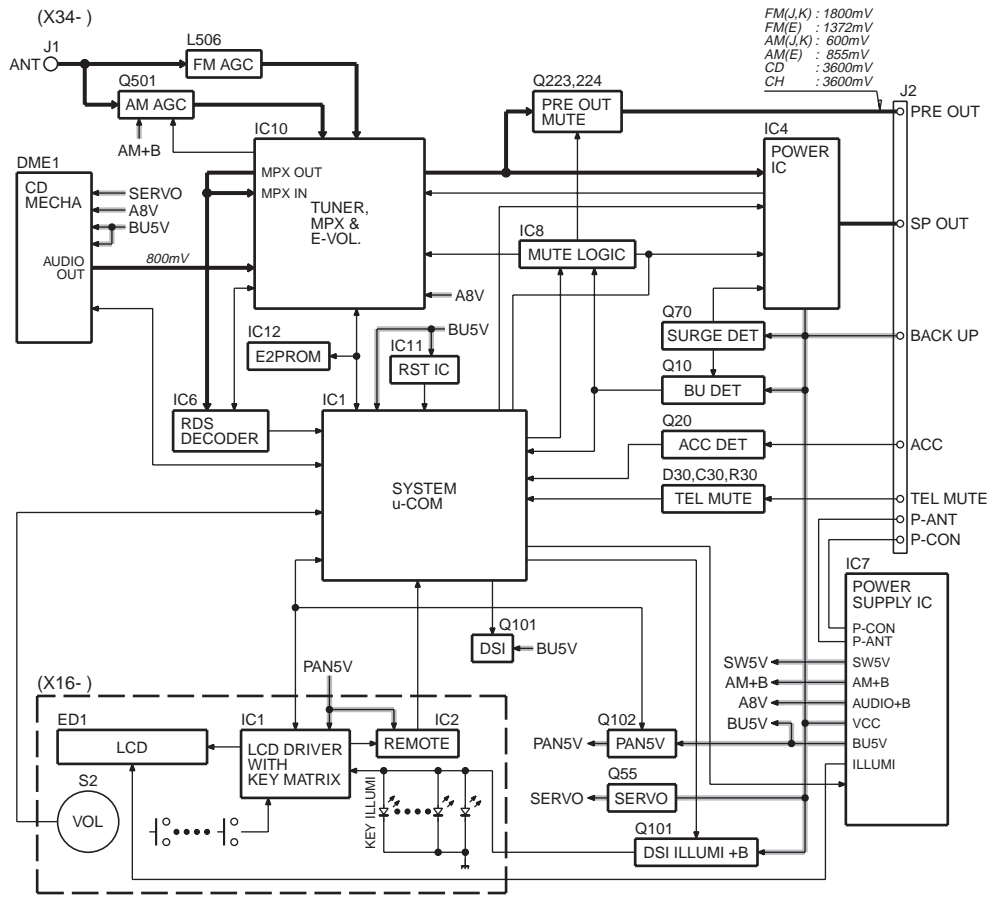


* Depends on the model. Refer to the parts list.

This product uses Lead Free solder.

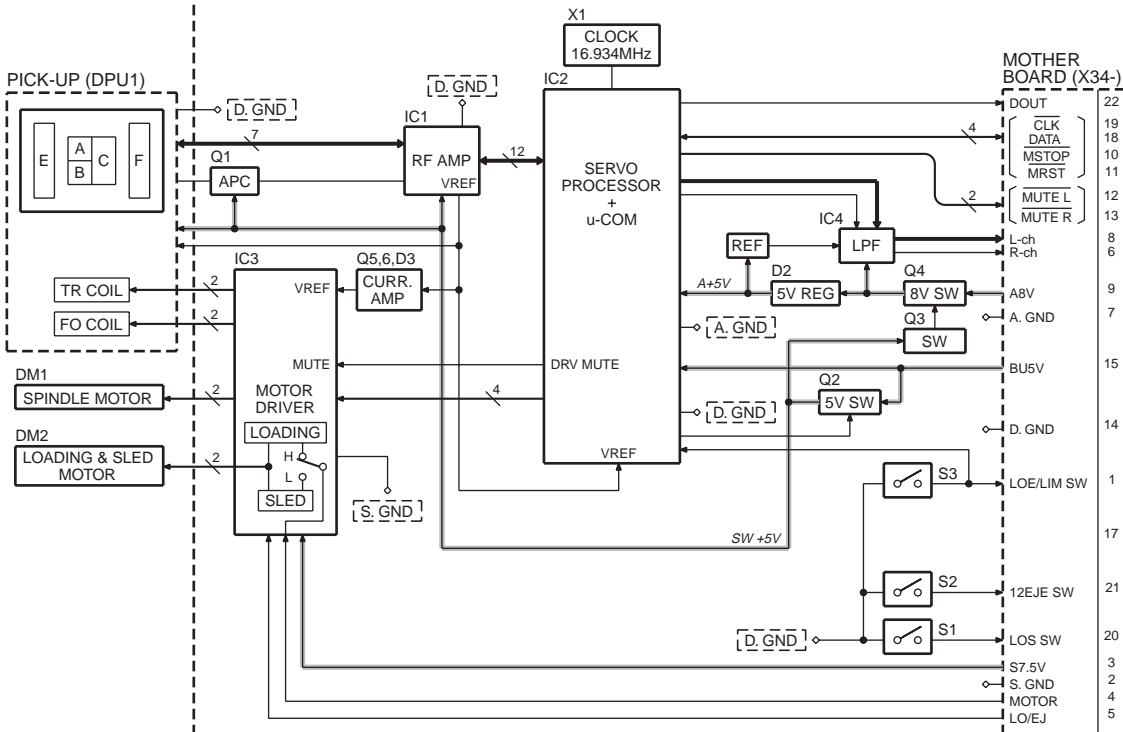


BLOCK DIAGRAM



MECHA ASSY (X92-)

CD PLAYER UNIT (X32-5840-00)



COMPONENTS DESCRIPTION

● ELECTRIC UNIT (X34-419x-xx)

Ref. No.	Application / Function	Operation / Condition
IC1	System μ -COM	System controller
IC4	Power IC	Signal amplifier
IC7	Power supply IC	DC5Vx1, 7.9x1, 8.1Vx2, 10.2Vx1, P-CON, P-ANT output
IC8	Mute logic IC	Controls for mute operation
IC10	E-VOL & Tuner	E-VOL, tuner, stereo decoder
IC11	Reset IC	"L": detection. Voltage is below 3.6V
IC12	E2PROM	Saves and loads for tuner adjustment data
Q10	BU detection	ON when the base goes "Hi" during BU is applied
Q20	ACC detection	ON when the base goes "Hi" during ACC is applied
Q40	Mute driver for PRE OUT	ON when the base goes "Lo"
Q50	5V SW	ON when the base goes "Lo"
Q51	Control SW for SERVO+B	ON when the base goes "Hi"
Q53	Control SW for IC3	ON when the base goes "Hi". Output voltage is 10.3V
Q55	SERVO+B AVR	Output voltage is 7.5V
Q70	Surge detection	ON when the base goes "Hi"
Q102	Panel 5V SW	ON when the base goes "Lo"
Q223	Mute SW for Lch PRE OUT	Pre-output is muted when the base goes "Hi"
Q224	Mute SW for Rch PRE OUT	Pre-output is muted when the base goes "Hi"
Q251	IC4 SVR discharge SW	ON when the base goes "Hi"
Q501	AM RF amplifier	Adjusts for gain
Q502	FM RF amplifier	RF amplifier

● SWITCH UNIT (X16-356x-xx)

Ref. No.	Application / Function	Operation / Condition
IC1	LCD driver	
IC2	Remote control sensor	KDC-132CR only
Q1	Key scan start SW	ON when the base goes "Lo"

● DAUGHTER UNIT (X89-2690-10) : KDC-1032 only

Ref. No.	Application / Function	Operation / Condition
Q221,222	2-PREOUT MUTE	ON when the base goes "Hi"
Q225	2-PREOUT MUTE	ON when the base goes "Hi"

● CD PLAYER UNIT (X32-5840-00)

Ref. No.	Application / Function	Operation / Condition
IC1	RF AMPLIFIER responding to CD-RW	Generation of RF signal based on the signals from the APC circuit and pickup, and generation of servo error (focusing error and tracking error) signals. Detection of dropout, anti-shock, track crossing and off-tracking conditions, included gain control function during CD-RW.

COMPONENTS DESCRIPTION

Ref. No.	Application / Function	Operation / Condition
IC2	CD SIGNAL PROCESSOR built-in μ -COM	Focusing, tracking, sled and spindle servo processing. Automatic adjustment (focusing, tracking, gain, offset and balance) operations. Digital signal processing (DSP, PLL, sub-codes, CIRC error correction, audio data interpolation processing) operations, and microcomputer function.
IC3	4ch BTL DRIVER	Focusing coil, tracking coil, spindle motor and sled motor driver, disc loading and eject operation.
IC4	LPF (LOW PASS FILTER)	2nd low pass filter for audio signals
Q1	APC (AUTOMATIC POWER CONTROL)	LD power control
Q2	DIGITAL +5V SW	ON when P. ON signal goes "Lo"
Q3	Q4 SW	ON when P. ON signal goes "Lo" (SW+5V is ON)
Q4	ANALOG +8V SW	ON when P. ON signal goes "Lo" (Q3 is ON)
Q5, 6	CURRENT AMP	Current driver

MICROCOMPUTER'S TERMINAL DESCRIPTION

● SYSTEM μ -COM: IC1 on X34- (ELECTRIC UNIT)

Pin No.	Pin Name	I/O	Application	Truth value table	Processing Operation Description
1	$\overline{\text{TDF DET}}$	I	Panel detection		H: Panel detached, L: Panel attached
2	8EJE SW	I			H: Eject completed Always L-output for models that do not support 8cm CD
3	NC	-	Not used (output L)		
4	AVSS	-			
5	$\overline{\text{L-RST}}$	O	LCD driver reset		H: When panel detached, L: Reset Normally H, L when Power OFF
6	L-CE	O	LCD driver select		H: Select (Panel communication) L-output when panel detached
7	AVREF1	-			
8	NC	-	Not used (connected to pin 9)		
9	IC10-DATA	I/O	E2PROM communication data for IC10		H for no communication
10	IC10-CLK	O	E2PROM communication clock for IC10		H for no communication
11	L-DATAL	I	Communication data from LCD driver		H for no communication, L when panel detached Pull Down at over X34
12	L-DATAL	O	Communication data to LCD driver		L-output when panel detached
13	L-CLK	O	Communication clock to LCD driver		L-output when panel detached
14	R-DATA	I	Communication data from RDS		L-output for models without RDS
15	R-QUAL	I	Communication qualification from RDS		L-output for models without RDS
16~18	NC	-	Not used (output L)		
19	FUNC OUT	O	Function output result		H: OK, L: NG

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth value table	Processing Operation Description
20	NC	-	Not used (output L)		
21	AFS	O	Constant switching for noise		H: Normal, L: FM/AM seek and AF search (L for Tuner SRC Auto Zero)
22~25	NC	-	Not used (output L)		
26	TYPE REF	O	5V output for destination setting		H: When reading destination
27	SD	I	Tuner SD input		H: Station found
28	NC	-	Not used (output L)		
29	TYPE2	I	Destination 2	①	
30	TYPE1	I	Destination 1	①	
31	TYPE0	I	Destination 0	①	
32	TUNER-TYPE1	I	E-VOL setting switching		H: OEM model 1, L: KENWOOD brand model
33	VSS1	-			
34	TUNER-TYPE1	I	E-VOL setting switching		H: OEM model 0, L: KENWOOD brand model
35	MUTE	O	Mute (E-Vol/Pre) control		H: Mute ON, L: Mute OFF L in 15 seconds after Power OFF
36	M-DATA	I/O	CD mechanism communication data		H for no communication
37	M-CLK	O	CD mechanism communication clock		H for no communication
38	ADJ	O	Tuner line adjustment		When ADJ=H, PS1-0,1=L, PS1-2,2-0,1=Hi-z IC10-DATA, CLK=Hi-z
39	$\overline{\text{P-MUTE}}$	O	Power IC mute control		L: Mute OFF, L: Mute ON H in 15 seconds after Power OFF
40	SVR	O	Power IC SVR control		H: When reduction of power is detected, L: Normal
41	$\overline{\text{P-STBY}}$	O	Power IC STBY control		H: Power IC ON, L: Power IC OFF
42	$\overline{\text{SW5V}}$	O	SW5V control		H: SW5V OFF, L: SW5V ON H in 10 seconds after Power OFF
43	B.U-DET	I	Back Up detection		H: Reduction of power, L: BU found
44	ACC-DET	I	ACC detection		H: ACC OFF, L: ACC ON
45	PS1-0	O	Power IC SW1 control 0 (AUDIO8V/P-CON)		
46	PS1-1	O	Power IC SW1 control 1 (AUDIO8V/P-CON)		
47	PS1-2	O	Power IC SW1 control 2 (P-ANT)		
48	PS2-0	O	Power IC SW2 control 0 (ILLUMI/FM/AM)		
49	PS2-1	O	Power IC SW2 control 1 (ILLUMI/FM/AM)		
50	BEEP	O	Beep		
51	ENC CCW	I	Rotary encoder input		
52	ENC CW	I	Rotary encoder input		
53	DSI	O	DSI control		
54	LOE/LIM SW	I	CD mechanism Down & Limit detection		H: Chucking detection, L: Normal
55	MO SW	O	CD mechanism motor switching SW		H: Loading/Eject/Break, L: Play

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Truth value table	Processing Operation Description
56	LO/EJ	I/O	CD mechanism Loading/Eject switching		H: Eject, L: Loading
57	$\overline{\text{M-STOP}}$	O	CD mechanism Stop output		H: CD ON, L: Stop
58	$\overline{\text{M-RST}}$	O	CD mechanism Reset output		H: Normal, L: Mechanism reset
59	$\overline{\text{M-MUTE}}$	I	CD mechanism mute input		H: Mute OFF, L: Mute ON
60	$\overline{\text{RESET}}$	I	System μ -com reset input		
61	$\overline{\text{REMO}}$	I	Remote controller input		
62	$\overline{\text{R-CLK}}$	I	RDS clock input		L-output for models without RDS
63	NC	-			Not used (output L)
64	$\overline{\text{LOS SW}}$	I	CD mechanism Loading SW detection		H: No DISC, L: DISC IN (Loading start)
65	$\overline{\text{KEY-REQ}}$	I	Key input detection (Connection with pin 11 L-DATAL)		H: No key input L: Key input (Started to read Edge Key Data)
66	$\overline{\text{8EJE SW}}$	I	12cm DISC detection		L: 12cm DISC
67	VSS0	-			
68	VDD1	-			
69	X2	-	MAIN X'tal oscillation circuit		4.19MHz X'tal connection
70	X1	-	MAIN X'tal oscillation circuit		4.19MHz X'tal connection
71	IC	-	TEST		
72	XT2	-	NC		Open
73	XT1	-	VDD		VDD connection
74	VDD0	-			
75	AVREF0	-	AD converter reference voltage (Connection to pin 80 AVCONT)		
76	S-METER	I	S-meter input		
77	NOISE	I	NOISE detection (FM)		
78	PHONE	I	2way Mute		2.5V or more: NAVI mute, 1.0V or less: TEL mute L-output to the model without Phone mute
79	NC	-	Not used (output L)		
80	AVCONT	O	AD reference voltage control		H: When AD converter is used The same timing as P. ON

Truth value table

① Destination

TYPE2 (pin29)	TYPE1 (pin30)	TYPE0 (pin31)	DESTINATION	MODEL
0	0	0	K	KDC-1032/132/132CR
0	0	1	-	-
0	1	0	E	KDC-234SGA/334SA/334SAY/334SG/334SGY
0	1	1	-	-
1	0	0	-	-
1	0	1	M	KDC-132/233
1	1	0	-	-
1	1	1	J	RDT-111

MICROCOMPUTER'S TERMINAL DESCRIPTION

● CD MECHANISM μ -COM : IC2 on X32- (CD PLAYER UNIT)

Pin No.	Pin Name	I/O	Application	Processing Operation
1	TVD	O	Traverse drive output (PWM output)	
2	SPL	O	Spindle motor drive output (PWM output)	
3	NC	-	No connection	
4	PWM	O	Multipurpose PWM output	
5	TBAL	O	Tracking balance adjustment output (PWM output)	
6	FBAL	O	Focusing balance adjustment output (PWM output)	
7	NRFDET	I	RF detection signal input	L: Detection
8	OFT	I	Off-tracking signal input	H: Detection
9	BDO	I	Drop-out signal input	H: Detection
10	LDON	O	Laser-on signal output	H: Focus ON
11	DSL B	O	DSL balance output	
12	DVDD1	-	Power supply for digital circuit	
13	DVSS1	-	GND for digital circuit	
14	AVSS2	-	GND for analog circuit	For DSL, PLL and A/D converter
15	DSL F	I/O	Loup filter for DSL and bias output for ARF	
16	ARF	I	RF signal input	
17	RFSW	I	DSL circuit time constant switch	
18	PLL F	I/O	Loup filter for PLL	
19	PLL F2	I/O	Loup filter character switch for PLL	
20	IREF	I	Reference current input	
21	RFENV	I	RF envelope signal input	
22	TRCRS	I	Tracking cross signal input	
23	TE	I	Tracking error signal input	
24	FE	I	Focusing error signal input	
25	AVDD2	-	Power supply for analog circuit	For DSL, PLL and A/D converter
26	AVSS1	-	GND for analog circuit	For Lch/Rch audio output
27	OUTR	O	Rch audio output	
28	AVDD1	-	Power supply for analog circuit	For Lch/Rch audio output
29	OUTL	O	Lch audio output	
30	DVSS3	-	GND for digital circuit	
31	CSEL	-		
32	NC	-	No connection	
33	ASEL	-		
34	MSEL0	-		
35	MSEL1	-		
36-39	NC	-	No connection	
40	VREFP	-	Reference power supply input for A/D converter	
41	HOT	-		
42	8EJE SW	-		

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin No.	Pin Name	I/O	Application	Processing Operation
43	12EJE/SDET SW	-		
44	LOE/LIM SW	I	Loading-end detection / Pick-up inner circumference detection	H: Loading-end detection L: Pick-up inner circumference detection
45-49	NC	-	No connection	
50	DVDD2	-	Power supply for digital circuit	
51	X1	I	Main clock input	
52	X2	O	Main clock output	
53	DVSS2	-	GND for digital circuit	
54	XSUB1	-		
55	NC	-	No connection	
56	TEST1	-	Test terminal	Normal condition: "H" fixed
57	TEST2	-	Test terminal	Normal condition: "H" fixed
58,59	NC	-	No connection	
60	DRV MUTE	O	Driver mute control	L: Mute ON, H: Mute OFF
61	$\overline{\text{MUTE L}}$	O	Audio Lch mute output	
62	$\overline{\text{MUTE R}}$	O	Audio Rch mute output	
63	$\overline{\text{RST}}$	I	LSI reset input	
64	OCD CLK	-		
65	$\overline{\text{MSTOP}}$	I	Standby detection	
66	DATA	I/O	I2C bus data line (Communication line to system μ -com)	During serial writer is connected.
67	SBIO	I	Data input	During serial writer is connected.
68	$\overline{\text{CLK}}$	I/O	I2C bus clock line (Communication line to system μ -com)	During serial writer is connected.
69	TX	O	Digital audio interface signal output	
70	NC	-	No connection	
71	XSEL	-		
72	MCNT	I	Loading control / Eject control	L: OFF (Host control), H: Mecha μ -com control
73	P.ON	O	Audio & Servo power supply control	L: Power supply ON, H: Power supply OFF
74,75	NC	-	No connection	
76	CD-RW	O	CD-RW control	H: CD-RW, L: Normal disc
77	NC	-	No connection	
78	DVDD3	-	Power supply for digital circuit	
79	FOD	O	Focusing drive output (PWM output)	
80	TRD	O	Tracking drive output (PWM output)	

TEST MODE

● How to enter the test mode

- Press Preset [1] and Preset [3] keys simultaneously to reset the unit.

● How to clear the test mode

Reset. (Do not clear by Power OFF and ACC OFF.)

● Initial conditions of the test mode

- Source is STANDBY.
- Displays lights are all turned on.
- The volume is at -10dB (The display is 30).
- CRSC is OFF, regardless of whether there are switching functions or not.
- LOUD is OFF.
- SYSTEM Q is NATURAL (FLAT).
- BEEP should always work by pressing a key.

● Test mode specification for TUNER

- TUNER (FM) Preset [4] key shall be 98.3MHz.

● CD receiver test mode specifications

- Forced discharging operation is prohibited at reset start. Note that a CD is not to be recognized by reset when it is inserted.
- [Track up] key triggers a jump to the following tracks.
No. 9 → No. 15 → No. 10 → No. 11 → No. 12 → No. 13 → No. 22 → No. 14 → No. 9 (recursive)
- [Track down] key moves back to the previous track from the current track.
- Preset [1] key triggers a jump to No. 28.
- Preset [2] key triggers a jump to No. 14. (Scan function is invalid.)

● Audio adjust mode

- Pushing the [VOL] key enters the audio function mode.
- The initial item is Fader. (FAD → BALANCE → BASS → MID → TRE)
- Use [AM/FM] key to switching items.
- Use [Seek Up/Down] key to switching the adjusted value.
- Adjust Fader/Balance to three levels (15 ↔ 0 ↔ 15) with Volume up/down. (initial value: 0)
- Adjust Bass/Middle/Treble to three levels (-8 ↔ 0 ↔ +8) with Volume up/down. (initial value: 0)

- Pressing the [VOL] key for more than a second enters the audio setup mode.
- Use [AM/FM] key to switching items.
- Use [Seek Up/Down] key to switching the adjusted value.
- Adjust Volume offset to two levels (-8 ↔ 0). (initial value: 0)
- Initialize everything with the [Track-Up] key in the standby source.
- Pressing [*] key on the remote controller enters the audio adjustment mode. (Use [*] key to cancel. KDC-132CR only)
- Continuous feed with a remote controller shall not be used. Pressing a key activates a motion. (KDC-132CR only)

● Special display when all lights are on

The following information will be displayed by pressing the preset key when STANDBY indicators are on.

[1] key	<ul style="list-style-type: none"> • Press [1] key. The current destination SW is displayed. (Display) TP-X • Press a key while the destination SW is displayed. Version display (month, date, hour, minute in 8 digits) (Display) XXXX xxxx
[2] key	<ul style="list-style-type: none"> • All LCD light up.
[3] key	<ul style="list-style-type: none"> • Press the key for less than a second: Power-on time display (STANDBY time should not be counted). • Press the key for more than 2 seconds while the power-on time is displayed: The power-on time is cleared. (Display) Pon_x XXXX MAX 60000 (time)
[4] key	<ul style="list-style-type: none"> • Press the key for less than a second: CD operation time display. • Press the key for more than 2 seconds while the CD operation time is displayed: CD operation time is cleared. (Display) PLY_x XXXX MAX 60000 (time)
[5] key	<ul style="list-style-type: none"> • Press the key for less than a second: CD EJECT count display. • Press the key for more than 2 seconds while the CD EJECT count is displayed: CD EJECT count is cleared. (Display) EJC_x XXXX MAX 60000 (time)

TEST MODE

[6] key	<ul style="list-style-type: none"> Press the key for less than a second: PANEL open/close count display. Press the key for more than 2 seconds while the PANEL open/close count is displayed: PANEL open/close count is cleared. (Display) PnL_x XXXX MAX 60000 (time)
[FM] key	<ul style="list-style-type: none"> ROM correction version display. (Display) When valid: R○○○ (○: numeric) When invalid (when unreadable): R--- When invalid (when the version is different): Rooo
[AM] key	<ul style="list-style-type: none"> IC10 adjustment status. (Display) Adjustment complete: E2OK Unadjusted: E2ER Communication error: ICER * Set Pin 19 to "H" output for E2P OK.
[TRACK-DOWN] key	<ul style="list-style-type: none"> Mechanism error detection status. Communication error → Error No. 1 → Error No. 2 → Error No. 3 → Communication error (Error No. 1 is the latest) The detection status is cleared by pressing [TRACK-DOWN] key for more than 2 seconds during status display. (Display) When communication OK: ICOK Communication error: ICER Not detected: En-- (n: 1~3) When detected: En** (**: error code)
[TRACK-UP] key	<ul style="list-style-type: none"> AUDIO data initial value setting (Display) INIT

● Backup current measurement

The MUTE terminal turns off in 2 seconds instead of 15 seconds when moved to ACC OFF.

● LCD short check

Switching the process in the following order by pressing [ATT] key in the STANDBY source.

- All indicators turn off.
- Turn on odd terminals and even terminals of the largest group of segments in every 250m sec.

- Turn on only odd terminals.
- Turn on only even terminals.
- All indicators turn on.
(* Return to the first to repeat.)

● Others

- When you start up the system in test mode, change the LINE MUTE inhibition time to 1 second from 10 seconds.

● Clearing CD mechanism error information (E2PROM data clear)

Press [ATT] + [Q] keys to reset (Reset is the only way to cancel information).

- Memory clear mode display
Display: MCLR
- Memory clear status display (The result of clearing will be displayed in 2 seconds after startup).
Display
Normal termination: CD_O
Abnormal termination: CD_—

● FM/AM channel space switching (only K or M destination models)

Press [1] + [5] keys and [SRC] key simultaneously during ACC ON/Power OFF.

● IC10 (X34-) stereo adjustment (VCO adjustment)

Press [1] key and [6] key simultaneously while all indicators are on (STANDBY) in test mode.
(Adjusted data will be written on E2PROM)

● Setting for OEM destination

Use pin 2 on the system μ-com terminal to support OEM model.

TUN TYPE1 (Pin 5)	TUN TYPE2 (Pin 6)	Description
Low	Low	① KENWOOD brand model
High	Low	② KENWOOD brand model with CRSC changed
Low	High	③ OEM model with CRSC changed
High	High	④ OEM model with CRSC & De-emphasis changed

ADJUSTMENT

1. IC10 (X34-) -The Tuner adjustment method

- When IC10 and its circumference are repaired, according to the following order, it readjusts if needed.
- The adjustment item changes with parts to exchange. Please refer to "Parts vs Adjustment item table".

1-1. VCO coil adjustment - adjustment of tuning voltage

Voltage Check Point : Vt-Check Land
(PWB Side B, around D506)

Adjustment Coil : L507 (VCO Coil)

The adjustment method : VCO coil is turned and adjusted according to the following tables.

Type	Mode	freq.	Voltage	Fig.
E/M	AM	1611kHz	5.5 ± 0.1(V)	2, 3 (C)
K	AM	1700kHz	5.8 ± 0.1(V)	2, 3 (C)
J	FM	90.0MHz	5.6 ± 0.1(V)	2, 3 (C)

M : AM Adjustment

For Your Information : The frequency of this unit is only set up by preset key in case this adjustment

1-2. Adjustment of 1st & 2nd-MIX coil

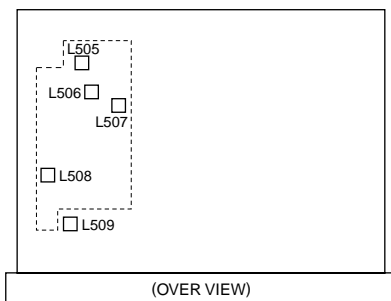
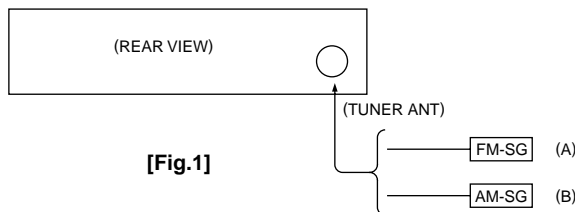
Voltage Check Point : S-METER-Check Land
(PWB Side B, around W572)

Adjustment Coil : 1st IFT=L508 / 2nd IFT=L509

Setting of Signal Generator : Refer to the following tables

Type	Mode	freq.	Mod.	ANT Input	Fig.
K	AM	1000kHz	OFF	35dBμEMF	1~3 (B),(C)
E/M/J	AM	999kHz	OFF	35dBμEMF	1~3 (B),(C)

- ① The appearance and the coil with which S-METER DC voltage serves as the maximum are turned and adjusted in the above-mentioned SG input.
- ② By the above-mentioned adjustment method, same adjustment is performed to both sides (1st & 2nd MIX Coil).



[Fig.2]

1-3. Adjustment of FM ANT & RF coil

Voltage Check Point : S-METER-Check Land
(PWB Side B, around W572)

Adjustment Coil : ANT Coil = L505
RF Coil = L506

Setting of Signal Generator : Refer to the following tables

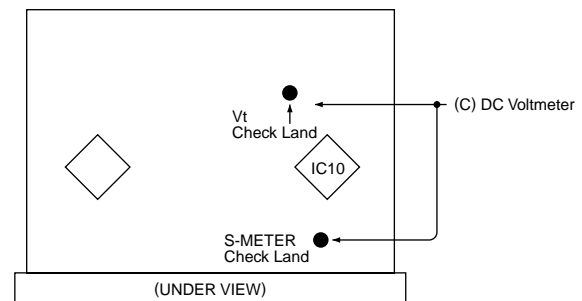
Type	Mode	freq.	Mod.	ANT Input	Fig.
E/M	FM	87.5MHz	OFF	5 or 11dBμEMF	1~3 (A),(C)
K	FM	87.9MHz	OFF	5 or 11dBμEMF	1~3 (A),(C)
J	FM	76.0MHz	OFF	5 or 11dBμEMF	1~3 (A),(C)

- ① The appearance and the coil with which S-METER DC voltage serves as the maximum are turned and adjusted in the above-mentioned SG input.
- ② By the above-mentioned adjustment method, same adjustment is performed to both sides (ANT & RF Coil).

1-4. Adjustment of STEREO (adjustment of 456k-VCO)

Adjust in TEST MODE

- How to enter the test mode
While pressing on [FM] and Preset [6] keys, reset the unit.
- Adjustment method
Complete on condition that show "STANDBY" when pressing on Preset [1] and Preset [6] keys for 1 second or more. (Writing adjustment value to the E2PROM.)
Effect of adjustment is in confirmation of adjustment status at Preset [4] key.
- Display of Preset [4]
Adjustment OK: "EPO" (7-segment LCD model)
Adjustment NG: "EPE" (7-segment LCD model)
- Releasing the test mode
Reset mode only.
ACC off, Power off, Power down and Remove the panel mode is not releasing.



[Fig.3]

ADJUSTMENT

2. IC10 (X34-) Replacement - Parts vs Adjustment Item Table

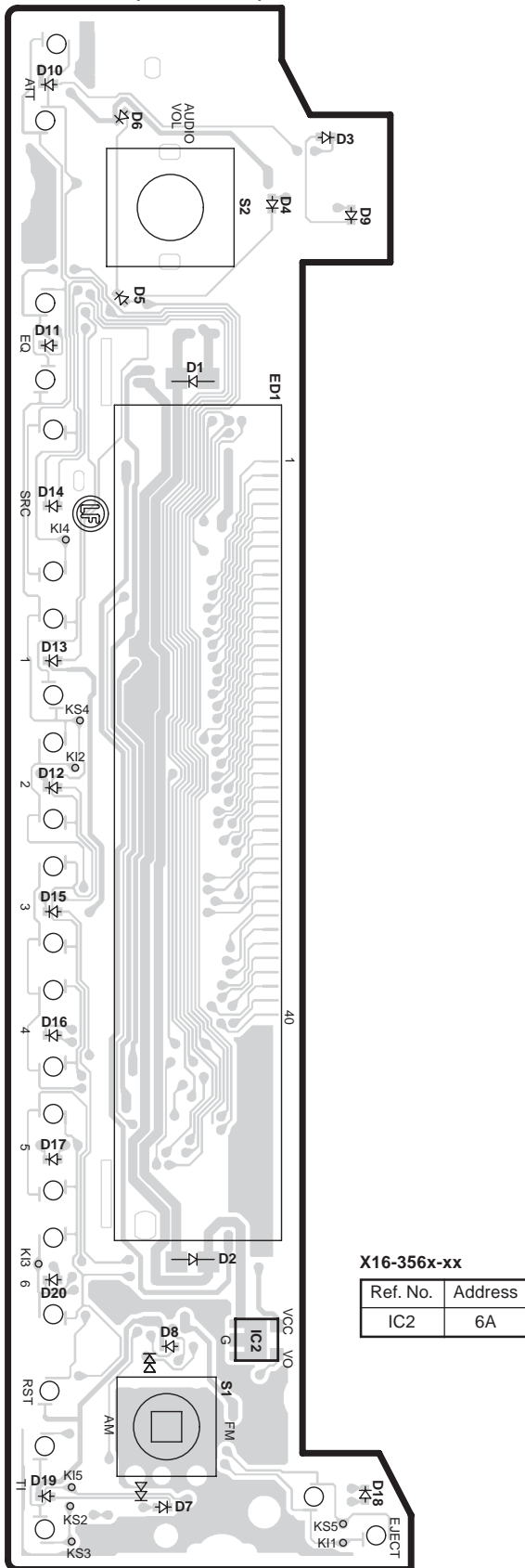
- When the parts in the following tables are exchanged, please readjust according to a table.
- When other parts are exchanged, please perform only a check of operation. There is no necessity for readjustment.

Replacement parts		Adjustment Item					
Ref. Number	Parts Name	VCOvt	1st MIX	2nd MIX	ANT Coil	RF Coil	Stereo
IC10	E-VOL & Tuner	YES	YES	YES	YES	YES	YES
IC12	E2PROM	YES	YES	YES	YES	YES	YES
L505	Antenna Coil				YES		
L506	RF Coil					YES	
L507	VCO Coil	YES	YES	YES	YES	YES	
L508	1st MIX Coil		YES				
L509	2nd MIX Coil			YES			
D504	Variable Capacitance Diode	YES	YES	YES	YES	YES	
D505	Variable Capacitance Diode	YES	YES	YES	YES	YES	
D506	Variable Capacitance Diode	YES	YES	YES	YES	YES	
X501	X'tal						

• The “ YES ” mark shows that the adjustment is need.

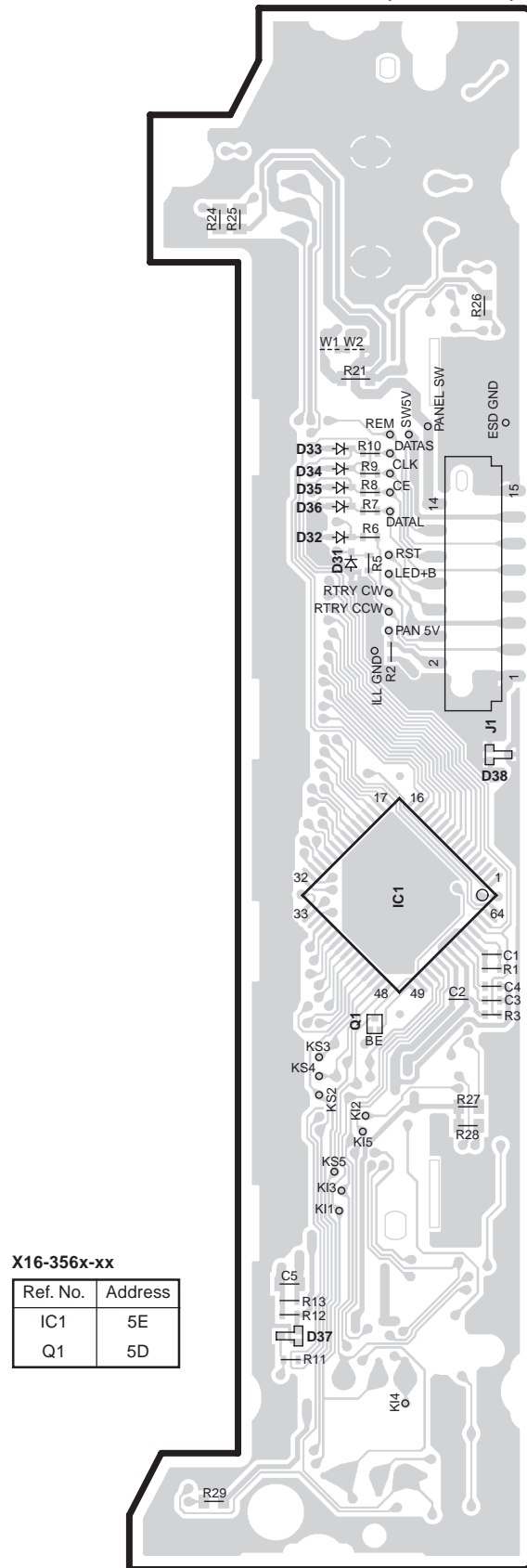
PC BOARD (COMPONENT SIDE VIEW)

SWITCH UNIT
X16-356x-xx (J76-0183-02)

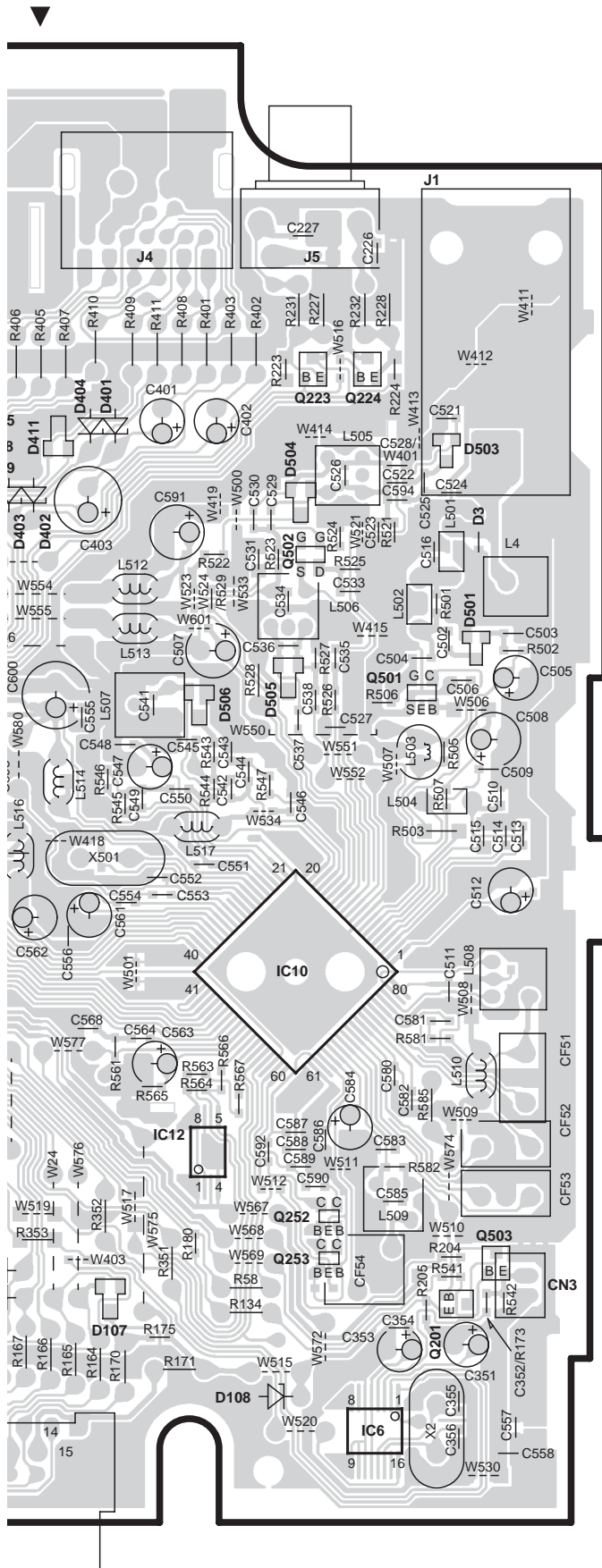


(FOIL SIDE VIEW)

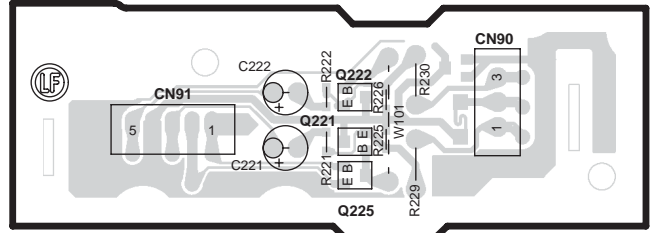
SWITCH UNIT
X16-356x-xx (J76-0183-02)



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



DAUGHTER UNIT
X89-2690-10 (J76-0057-12)



X89-2690-10

Ref. No.	Address
Q221	2N
Q222	2N
Q225	2N

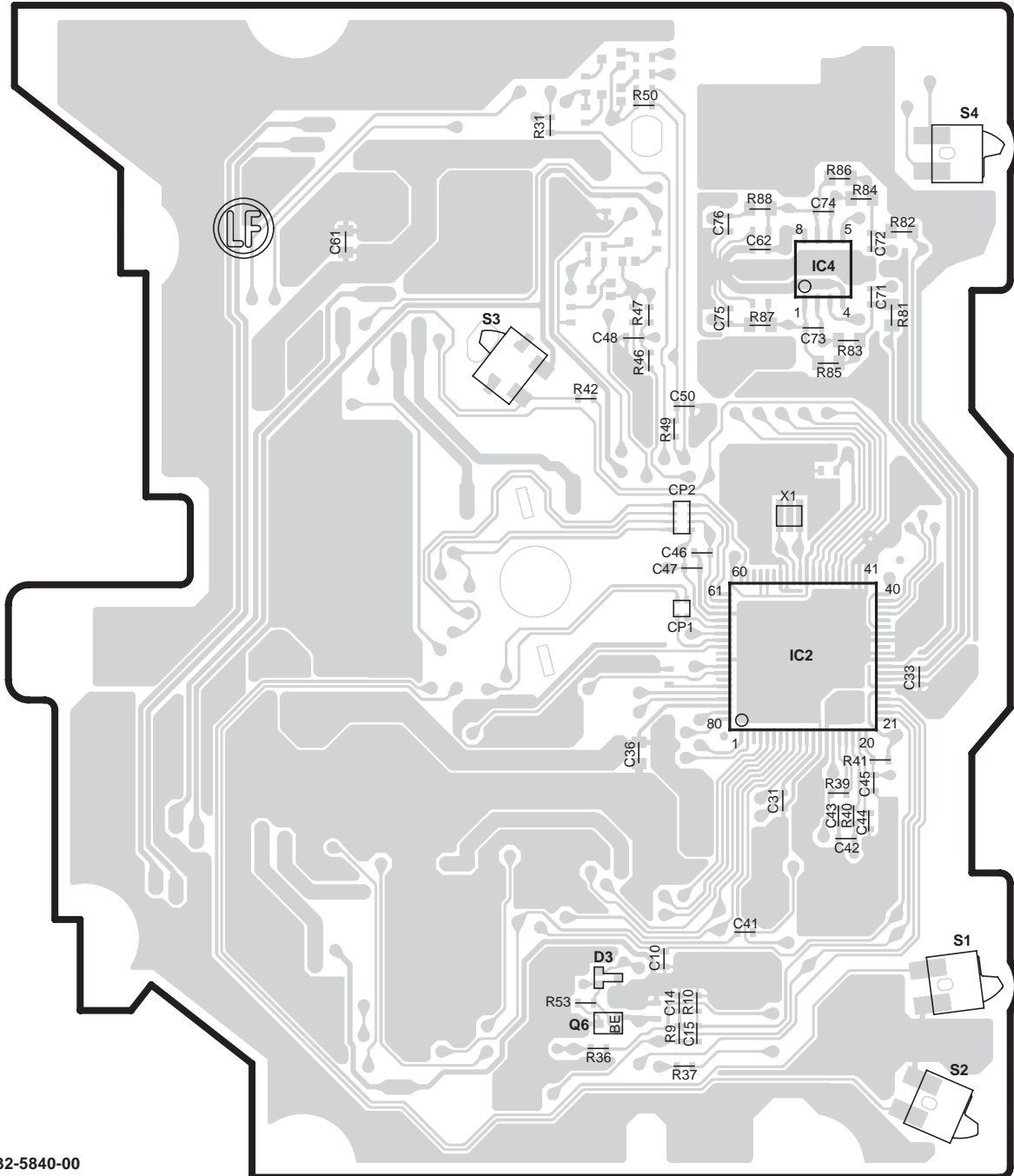
X34-419x-xx

Ref. No.	Address
IC1	5H
IC4	2I
IC7	4G
IC8	4H
IC10	5L
IC11	5G
IC12	6K
Q10	4H
Q20	4H
Q40	3J
Q50	4H
Q51	3F
Q53	4H
Q55	2F
Q70	3H
Q102	7H
Q223	3L
Q224	3L
Q251	3I
Q501	4L
Q502	3L

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

PC BOARD (COMPONENT SIDE VIEW)

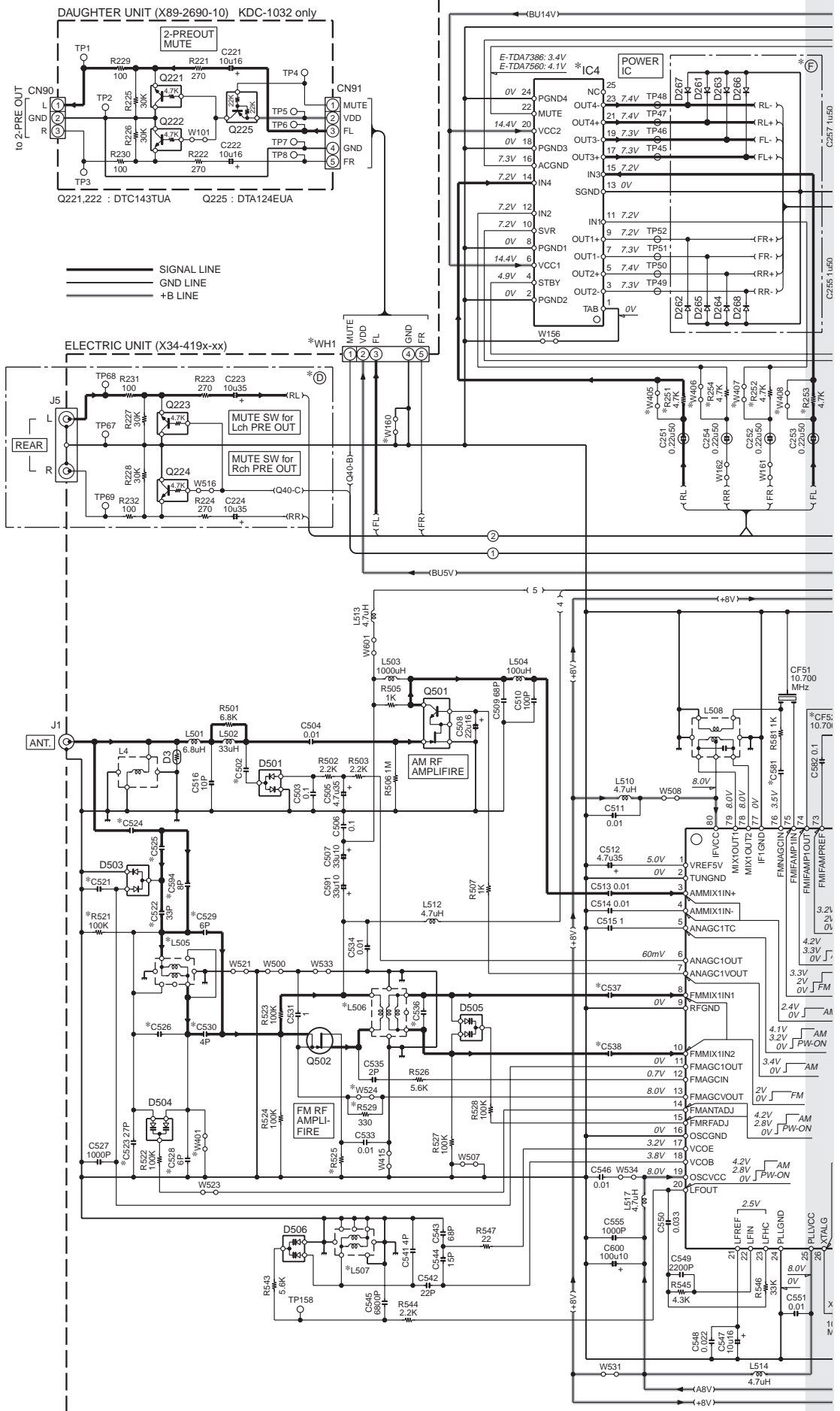
CD PLAYER UNIT X32-5840-00 (J76-0190-02)



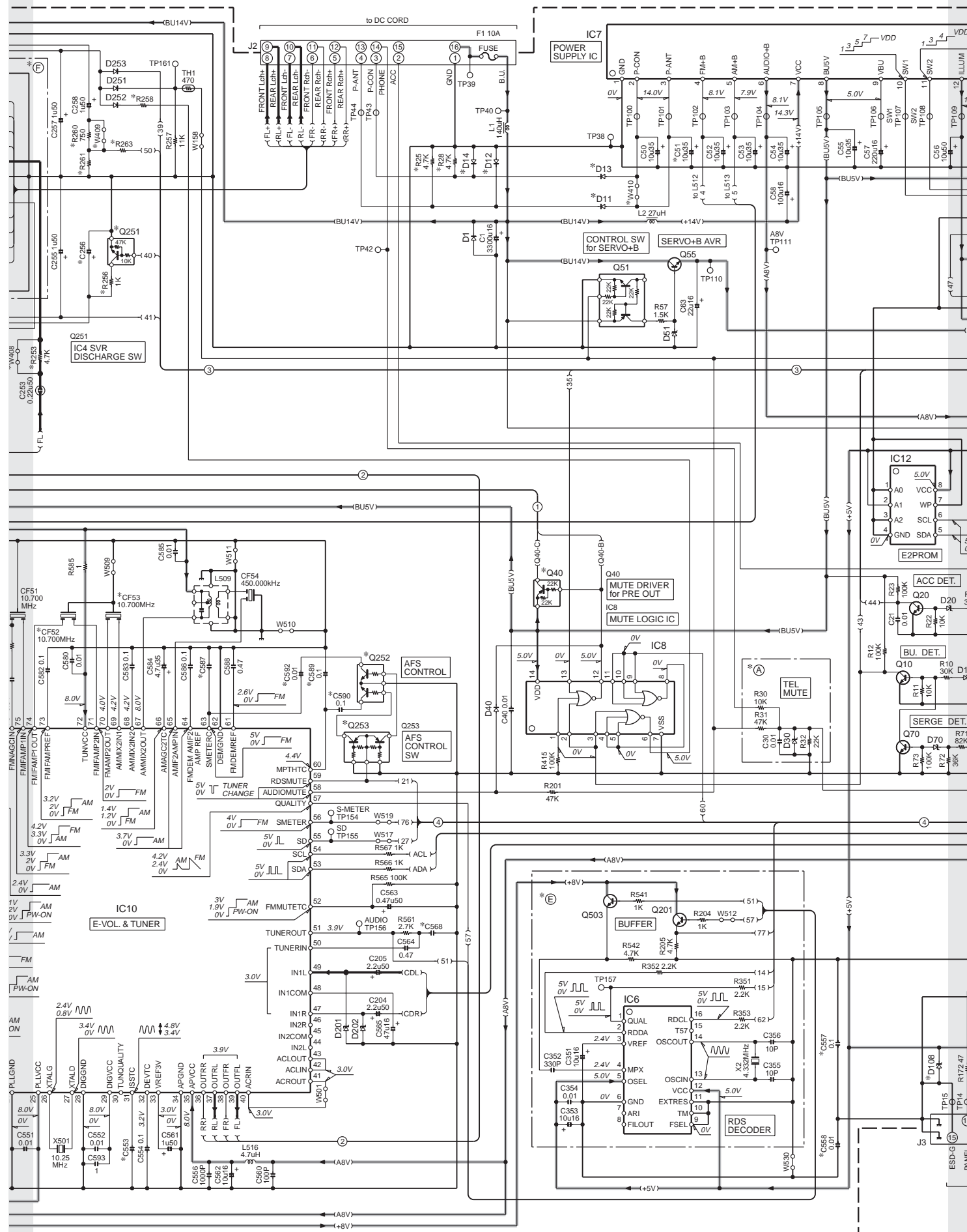
X32-5840-00

Ref. No.	Address
IC2	4S
IC4	2S
Q6	5R

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



KDC-1032/132/132CR KDC-133/233/234SGY



(X34-419x-xx)

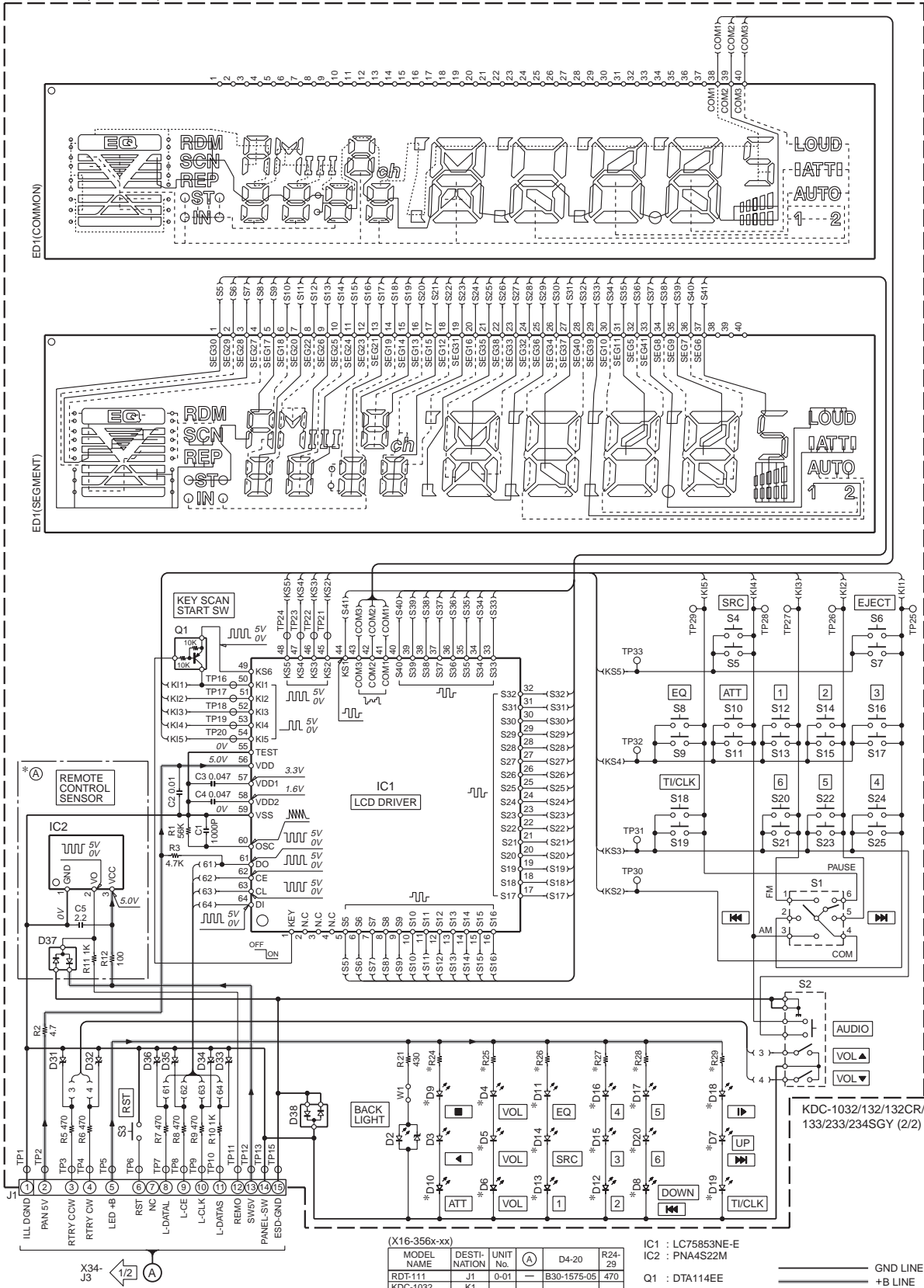
MODEL NAME	UNIT No.	DEST. NATION	(A)	(D)	(E)	(F)	C51	C106	C256	C502	C521	C522,530	C524	C526	C529,557,558,559	C537	C538	C539	C552	C553	C554	C555	C556	C581	C587	C589	C590	C592	CFR52.53	D108	D109	D113	D114	D115	D116	D117	D118	D119	D120	D121	D122	D123	D124	D125	D126	D127	D128	D129	D130	D131	D132	D133	D134	D135	D136	D137	D138	D139	D140	D141	D142	D143	D144	D145	D146	D147	D148	D149	D150	D151	D152	D153	D154	D155	D156	D157	D158	D159	D160	D161	D162	D163	D164	D165	D166	D167	D168	D169	D170	D171	D172	D173	D174	D175	D176	D177	D178	D179	D180	D181	D182	D183	D184	D185	D186	D187	D188	D189	D190	D191	D192	D193	D194	D195	D196	D197	D198	D199	D200	D201	D202	D203	D204	D205	D206	D207	D208	D209	D210	D211	D212	D213	D214	D215	D216	D217	D218	D219	D220	D221	D222	D223	D224	D225	D226	D227	D228	D229	D230	D231	D232	D233	D234	D235	D236	D237	D238	D239	D240	D241	D242	D243	D244	D245	D246	D247	D248	D249	D250	D251	D252	D253	D254	D255	D256	D257	D258	D259	D260	D261	D262	D263	D264	D265	D266	D267	D268	D269	D270	D271	D272	D273	D274	D275	D276	D277	D278	D279	D280	D281	D282	D283	D284	D285	D286	D287	D288	D289	D290	D291	D292	D293	D294	D295	D296	D297	D298	D299	D300	D301	D302	D303	D304	D305	D306	D307	D308	D309	D310	D311	D312	D313	D314	D315	D316	D317	D318	D319	D320	D321	D322	D323	D324	D325	D326	D327	D328	D329	D330	D331	D332	D333	D334	D335	D336	D337	D338	D339	D340	D341	D342	D343	D344	D345	D346	D347	D348	D349	D350	D351	D352	D353	D354	D355	D356	D357	D358	D359	D360	D361	D362	D363	D364	D365	D366	D367	D368	D369	D370	D371	D372	D373	D374	D375	D376	D377	D378	D379	D380	D381	D382	D383	D384	D385	D386	D387	D388	D389	D390	D391	D392	D393	D394	D395	D396	D397	D398	D399	D400	D401	D402	D403	D404	D405	D406	D407	D408	D409	D410	D411	D412	D413	D414	D415	D416	D417	D418	D419	D420	D421	D422	D423	D424	D425	D426	D427	D428	D429	D430	D431	D432	D433	D434	D435	D436	D437	D438	D439	D440	D441	D442	D443	D444	D445	D446	D447	D448	D449	D450	D451	D452	D453	D454	D455	D456	D457	D458	D459	D460	D461	D462	D463	D464	D465	D466	D467	D468	D469	D470	D471	D472	D473	D474	D475	D476	D477	D478	D479	D480	D481	D482	D483	D484	D485	D486	D487	D488	D489	D490	D491	D492	D493	D494	D495	D496	D497	D498	D499	D500	D501	D502	D503	D504	D505	D506	D507	D508	D509	D510	D511	D512	D513	D514	D515	D516	D517	D518	D519	D520	D521	D522	D523	D524	D525	D526	D527	D528	D529	D530	D531	D532	D533	D534	D535	D536	D537	D538	D539	D540	D541	D542	D543	D544	D545	D546	D547	D548	D549	D550	D551	D552	D553	D554	D555	D556	D557	D558	D559	D560	D561	D562	D563	D564	D565	D566	D567	D568	D569	D570	D571	D572	D573	D574	D575	D576	D577	D578	D579	D580	D581	D582	D583	D584	D585	D586	D587	D588	D589	D590	D591	D592	D593	D594	D595	D596	D597	D598	D599	D600	D601	D602	D603	D604	D605	D606	D607	D608	D609	D610	D611	D612	D613	D614	D615	D616	D617	D618	D619	D620	D621	D622	D623	D624	D625	D626	D627	D628	D629	D630	D631	D632	D633	D634	D635	D636	D637	D638	D639	D640	D641	D642	D643	D644	D645	D646	D647	D648	D649	D650	D651	D652	D653	D654	D655	D656	D657	D658	D659	D660	D661	D662	D663	D664	D665	D666	D667	D668	D669	D670	D671	D672	D673	D674	D675	D676	D677	D678	D679	D680	D681	D682	D683	D684	D685	D686	D687	D688	D689	D690	D691	D692	D693	D694	D695	D696	D697	D698	D699	D700	D701	D702	D703	D704	D705	D706	D707	D708	D709	D710	D711	D712	D713	D714	D715	D716	D717	D718	D719	D720	D721	D722	D723	D724	D725	D726	D727	D728	D729	D730	D731	D732	D733	D734	D735	D736	D737	D738	D739	D740	D741	D742	D743	D744	D745	D746	D747	D748	D749	D750	D751	D752	D753	D754	D755	D756	D757	D758	D759	D760	D761	D762	D763	D764	D765	D766	D767	D768	D769	D770	D771	D772	D773	D774	D775	D776	D777	D778	D779	D780	D781	D782	D783	D784	D785	D786	D787	D788	D789	D790	D791	D792	D793	D794	D795	D796	D797	D798	D799	D800	D801	D802	D803	D804	D805	D806	D807	D808	D809	D810	D811	D812	D813	D814	D815	D816	D817	D818	D819	D820	D821	D822	D823	D824	D825	D826	D827	D828	D829	D830	D831	D832	D833	D834	D835	D836	D837	D838	D839	D840	D841	D842	D843	D844	D845	D846	D847	D848	D849	D850	D851	D852	D853	D854	D855	D856	D857	D858	D859	D860	D861	D862	D863	D864	D865	D866	D867	D868	D869	D870	D871	D872	D873	D874	D875	D876	D877	D878	D879	D880	D881	D882	D883	D884	D885	D886	D887	D888	D889	D890	D891	D892	D893	D894	D895	D896	D897	D898	D899	D900	D901	D902	D903	D904	D905	D906	D907	D908	D909	D910	D911	D912	D913	D914	D915	D916	D917	D918	D919	D920	D921	D922	D923	D924	D925	D926	D927	D928	D929	D930	D931	D932	D933	D934	D935	D936	D937	D938	D939	D940	D941	D942	D943	D944	D945	D946	D947	D948	D949	D950	D951	D952	D953	D954	D955	D956	D957	D958	D959	D960	D961	D962	D963	D964	D965	D966	D967	D968	D969	D970	D971	D972	D973	D974	D975	D976	D977	D978	D979	D980	D981	D982	D983	D984	D985	D986	D987	D988	D989	D990	D991	D992	D993	D994	D995	D996	D997	D998	D999	D1000
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(X34-419x-xx)

MODEL NAME	UNIT No.	DEST. NATION	L505	L506	L507	Q40	Q45	Q251	Q252	R28	R29	R30	R31	R32	R33	R34	R35	R36	R37	R38	R39	R40	R41	R42	R43	R44	R45	R46	R47	R48	R49	R50	R51	R52	R53	R54	R55	R56	R57	R58	R59	R60	R61	R62	R63	R64	R65	R66	R67	R68	R69	R70	R71	R72	R73	R74	R75	R76	R77	R78	R79	R80	R81	R82	R83	R84	R85	R86	R87	R88	R89	R90	R91	R92	R93	R94	R95	R96	R97	R98	R99	R100	R101	R102	R103	R104	R105	R106	R107	R108	R109	R110	R111	R112	R113	R114	R115	R116	R117	R118	R119	R120	R121	R122	R123	R124	R125	R126	R127	R128	R129	R130	R131	R132	R133	R134	R135	R136	R137	R138	R139	R140	R141	R142	R143	R144	R145	R146	R147	R148	R149	R150	R151	R152	R153	R154	R155	R156	R157	R158	R159	R160	R161	R162	R163	R164	R165	R166	R167	R168	R169	R170	R171	R172	R173	R174	R175	R176	R177	R178	R179	R180	R181	R182	R183	R184	R185	R186	R187	R188	R189	R190	R191	R192	R193	R194	R195	R196	R197	R198	R199	R200	R201	R202	R203	R204	R205	R206	R207	R208	R209	R210	R211	R212	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R4
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KDC-1032/132/132CR
KDC-133/233/234SGY

SWITCH UNIT (X16-356x-xx)



(X16-356x-xx)

MODEL NAME	DESTINATION	UNIT No.	(A)	D4-20	R24-23
RDT-111	J1	0-01	—	B30-1575-05	470
KDC-1032	K1	0-11	—	B30-1567-05	470
KDC-132	K	0-11	—	B30-1567-05	470
KDC-132CR	K2	0-12	YES	B30-1533-05	430
KDC-133	M1	—	—	—	—
KDC-233	M2	2-70	—	B30-1533-05	430
KDC-234SGY	E5	—	—	—	—

IC1 : LC75853NE-E
IC2 : PNA4S22M
Q1 : DTA114EE
D2 : B30-1698-05
D3 : B30-1567-05
D4-20 : *
D31-36 : UD2S5.6B
D37,38 : DA204U

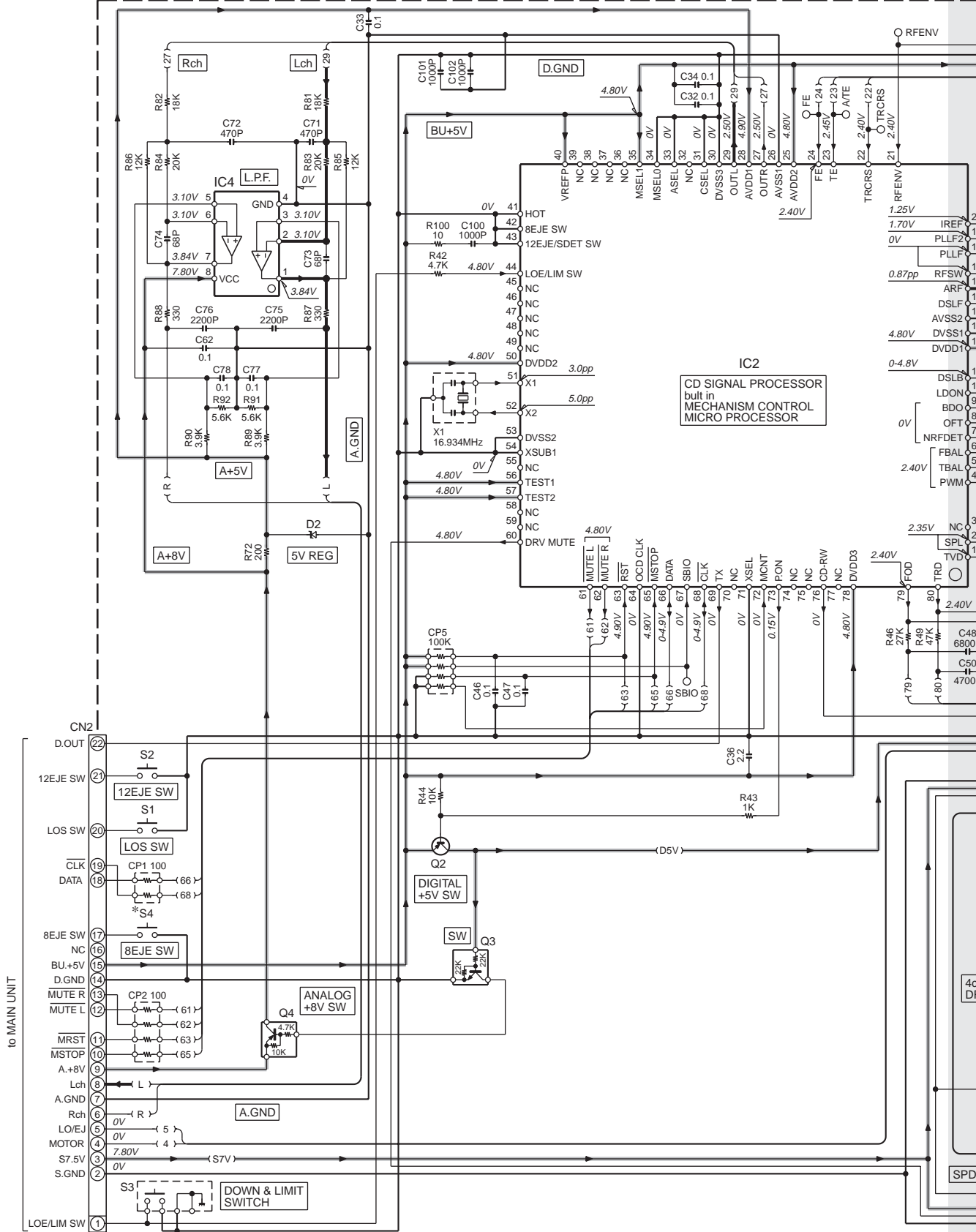
— GND LINE
— +B LINE

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

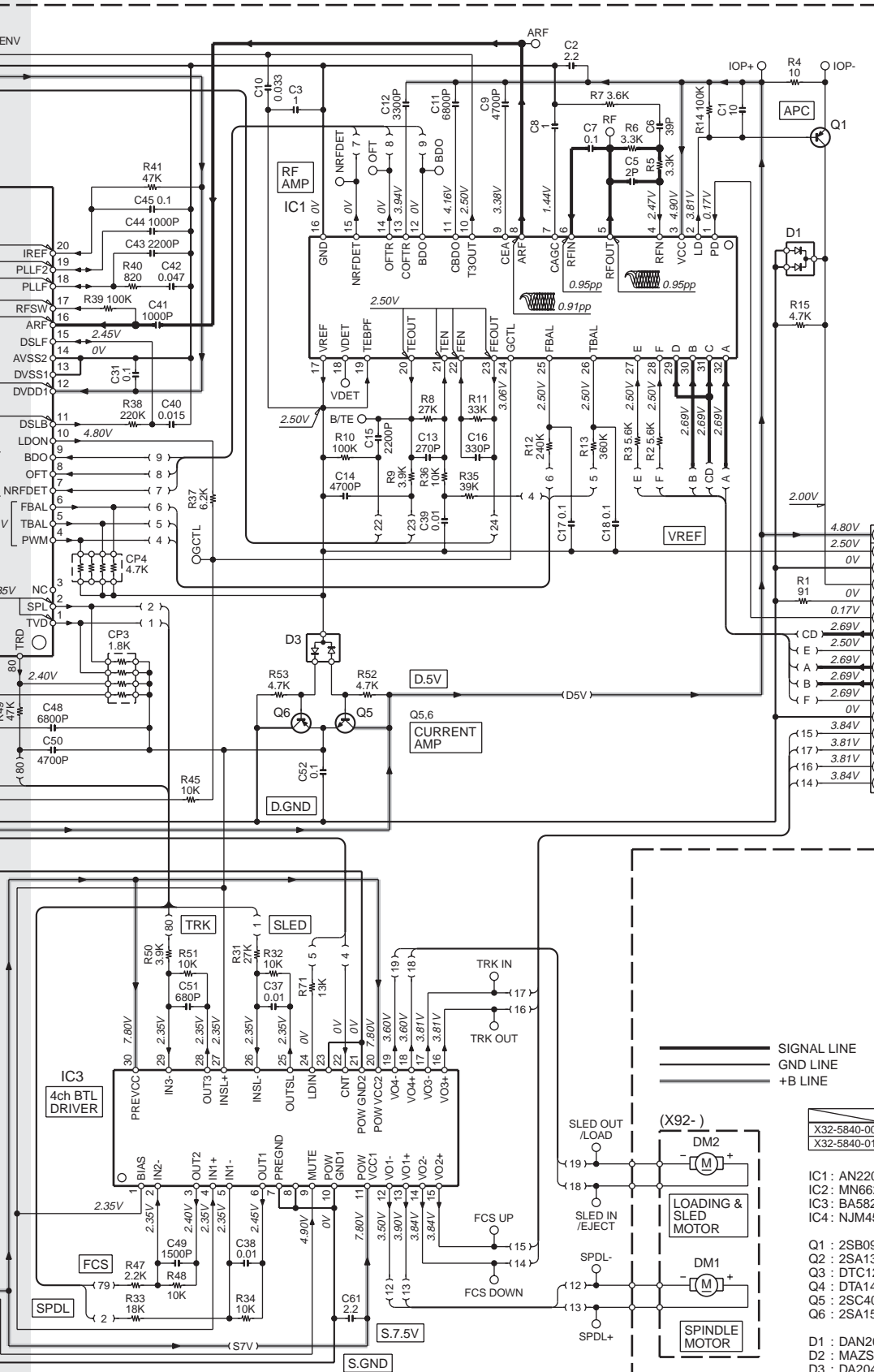
△ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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

CD PLAYER UNIT (X32-5840-0x)



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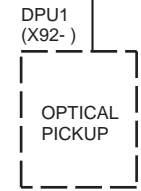


CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

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

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

Pin	Signal	DC Voltage
1	VCC	4.80V
2	VC	2.50V
3	GND	0V
4	LD	0V
5	VR	0.17V
6	PD	2.50V
7	C+D	2.69V
8	E	2.50V
9	A	2.69V
10	B	2.69V
11	F	2.69V
12	GND	0V
13	FCS+	3.84V
14	TRK+	3.81V
15	TRK-	3.81V
16	FCS-	3.84V

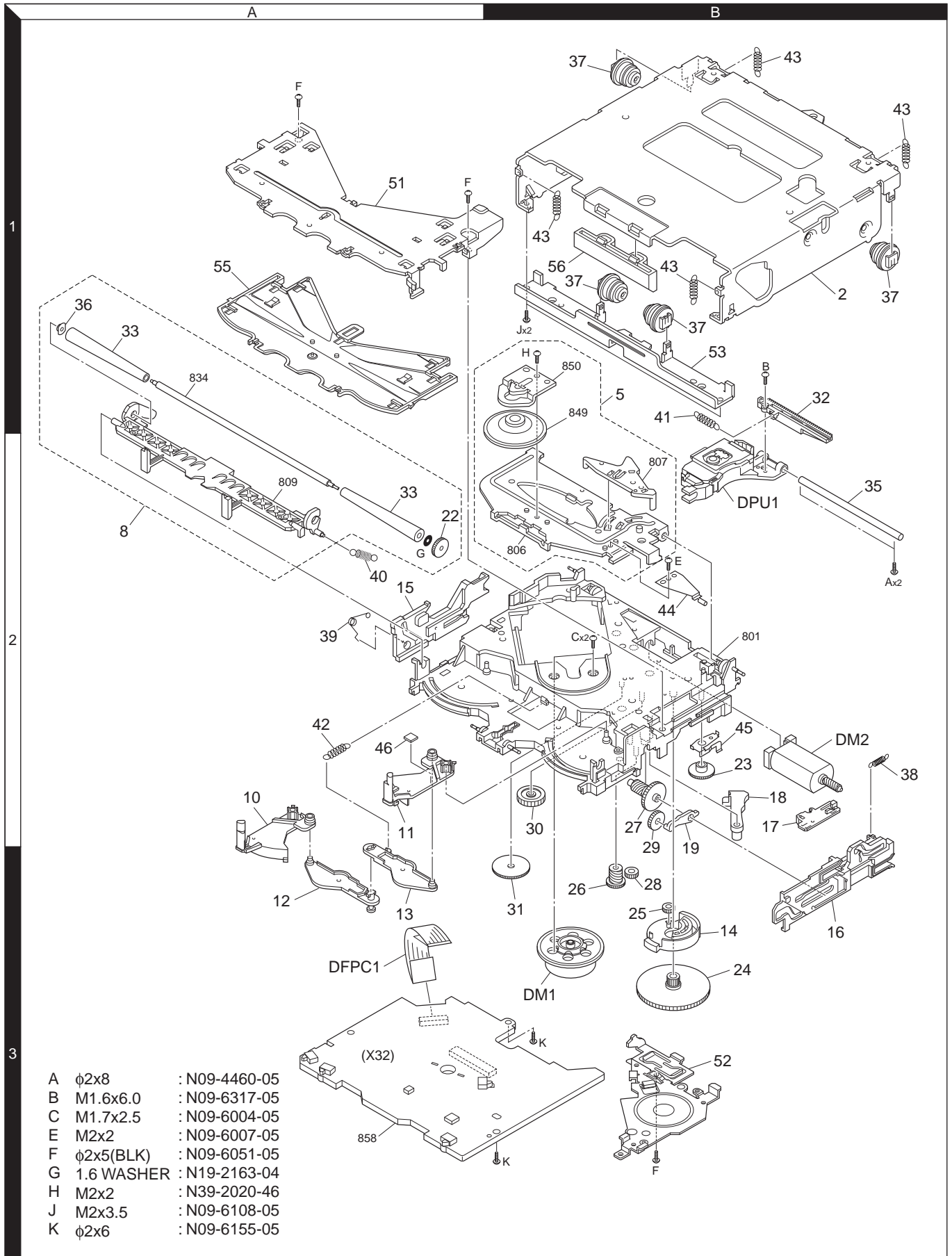


— SIGNAL LINE
 — GND LINE
 — +B LINE

	DESTI.	S4
X32-5840-00	K/ME	—
X32-5840-01	J	YES

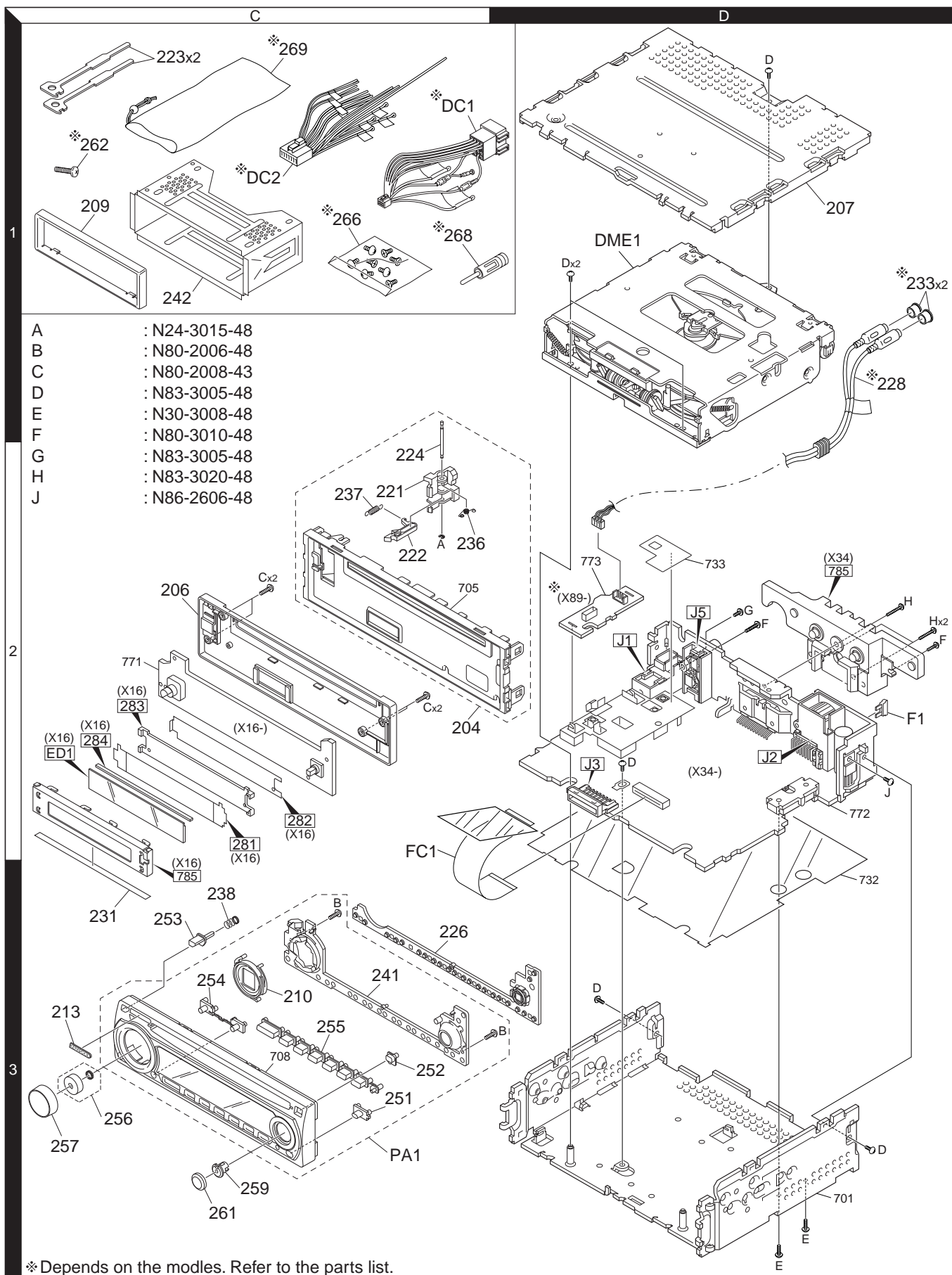
- IC1 : AN22002A-V
- IC2 : MN662771KS
- IC3 : BA5824FP
- IC4 : NJM4580M1-ZB
- Q1 : 2SB0970
- Q2 : 2SA1362(Y)-F
- Q3 : DTC124EUA
- Q4 : DTA143XUA
- Q5 : 2SC4081
- Q6 : 2SA1576A
- D1 : DAN202U
- D2 : MAZS0510L
- D3 : DA204U

EXPLODED VIEW (MECHANISM)



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

EXPLODED VIEW (UNIT)



PARTS LIST

* New parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
KDC-1032/132/132CR/133/233/234SGY					
204	2C		A22-2863-13	SUB PANEL ASSY	
206	2C		A46-1815-01	REAR COVER	
207	1D		A52-0804-12	TOP PLATE	
PA1	3C	*	A64-3770-02	PANEL ASSY	K
PA1	3C	*	A64-3771-02	PANEL ASSY	K1
PA1	3C	*	A64-3773-02	PANEL ASSY	E5
PA1	3C	*	A64-3774-02	PANEL ASSY	M1
PA1	3C	*	A64-3775-02	PANEL ASSY	M2
PA1	3C	*	A64-3854-02	PANEL ASSY	K2
-		*	B46-0681-04	ID CARD	
-			B46-0682-00	WARRANTY CARD	KK1K2
-			B46-0682-00	WARRANTY CARD	M1M2
-		*	B64-3239-00	INST. MANUAL (ENG,SPA)	KK1K2
-		*	B64-3245-00	INST. MANUAL (ENG,RUS)	E5
-		*	B64-3245-00	INST. MANUAL (POL,CZE,HUN)	E5
-		*	B64-3246-00	INST. MANUAL (CRO,SLO)	E5
-		*	B64-3246-00	INST. MANUAL (SWE,FIN)	E5
-		*	B64-3247-00	INST. MANUAL (ENG,T-CHI)	M1M2
-		*	B64-3248-00	INST. MANUAL (ARABIC)	M1M2
-		*	B64-3258-00	INST. MANUAL (FRENCH)	KK1
209	1C		B07-3122-01	ESCUTCHEON	K1K2E5
209	1C		B07-3122-01	ESCUTCHEON	M1
209	1C		B07-3123-01	ESCUTCHEON	KM2
210	3C		B19-2304-03	LIGHTING BOARD	
213	3C		B43-1518-04	BADGE	
221	2C		D10-4446-03	LEVER	
222	2C		D10-4447-03	LEVER	
223	1C		D10-4589-04	LEVER	
224	2C		D21-2329-04	SHAFT	
226	3C		E29-2027-02	CONDUCTIVE RUBBER	
228	1D	*	E30-6499-05	CORD WITH PINPLUG	K1
△ DC1	1C		E30-6427-05	DC CORD	E5
△ DC2	1C		E30-6415-15	DC CORD	KK1K2
△ DC2	1C		E30-6415-15	DC CORD	M1M2
FC1	2C	*	E39-0789-05	FLAT CABLE	
231	3C	*	F19-1468-04	BLIND PLATE	
233	1D		F29-0626-04	INSULATING COVER	K1
△ F1	2D		F52-0023-05	FUSE (MINI BLADE TYPE) (10A)	
236	2C		G01-2987-04	TORSION COIL SPRING	
237	2C		G01-3096-04	EXTENSION SPRING	
238	3C		G01-3244-04	COMPRESSION SPRING	
-			H10-4919-12	POLYSTYRENE FOAMED FIXTURE	
-			H25-0329-04	PROTECTION BAG (280X450X0.03)	
-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
-		*	H25-1236-04	PROTECTION BAG (0.03X180X400)	E5
-		*	H25-1236-04	PROTECTION BAG (0.03X180X400)	KK1K2
-		*	H25-1236-04	PROTECTION BAG (0.03X180X400)	M1M2
-		*	H54-3570-03	ITEM CARTON CASE (KDC-132)	K
-		*	H54-3571-03	ITEM CARTON CASE (KDC-1032)	K1
-		*	H54-3576-03	ITEM CARTON CASE (KDC-234SGY)	E5
-		*	H54-3577-03	ITEM CARTON CASE (KDC-133)	M1
-		*	H54-3578-03	ITEM CARTON CASE (KDC-233)	M2

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
-		*	H54-3583-03	ITEM CARTON CASE (KDC-132CR)	K2
241	3C		J19-7046-01	HOLDER	
242	1C		J21-9716-03	MOUNTING HARDWARE ASSY	
251	3C		K24-4279-04	PUSH KNOB (CLK)	
252	3C		K24-4280-04	PUSH KNOB (EJECT)	
253	3C		K24-4281-04	PUSH KNOB (RELEASE)	
254	3C		K25-1689-03	PUSH KNOB (ATT/Q)	
255	3C		K25-1690-02	PUSH KNOB (SRC/PRESET/RESET)	
256	3C		K29-7132-03	KNOB ASSY (VOL)	
257	3C		K29-7135-03	KEY TOP (VOL)	K2
257	3C		K29-7136-03	KEY TOP (VOL)	KK1E5
257	3C		K29-7136-03	KEY TOP (VOL)	M1M2
259	3C		K29-7134-03	KNOB BASE (FM/AM)	
261	3C		K29-7139-03	KEY TOP (FM/AM)	K2
261	3C		K29-7140-03	KEY TOP (FM/AM)	KK1E5
261	3C		K29-7140-03	KEY TOP (FM/AM)	M1M2
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	KK1K2
262	1C		N84-4016-48	PAN HEAD TAPTITE SCREW	M1M2
266	1C		N99-1757-05	SCREW SET	KK1K2
266	1C		N99-1757-05	SCREW SET	M1M2
A	2C	*	N24-3015-48	E TYPE RETAINING RING	
B	3C		N80-2006-48	PAN HEAD TAPTITE SCREW	
C	2C		N80-2008-43	PAN HEAD TAPTITE SCREW	
D	1D		N83-3005-48	PAN HEAD TAPTITE SCREW	
E	3D		N30-3008-48	PAN HEAD MACHINE SCREW	
268	1C		T90-0523-05	ANTENNA ADAPTOR	E5
269	1C	*	W01-1661-05	CARRYING CASE	K1K2
DME1	1D	*	X92-5450-00	MECHANISM ASSY	
SWITCH UNIT (X16-356x-xx)					
281	2C	*	B11-1489-04	OPTICAL DIFFUSER	
282	2C	*	B11-1495-04	REFLECTION SHEET	
283	2C	*	B19-2366-02	LIGHTING BOARD	
D2			B30-1698-05	LED	
D3			B30-1567-05	LED (1608, RED)	
D4			B30-1533-05	LED (1608, PG)	K2E5M1
D4			B30-1533-05	LED (1608, PG)	M2
D4			B30-1567-05	LED (1608, RED)	KK1
D5-20			B30-1533-05	LED (1608, PG)	K2E5M1
D5-20			B30-1533-05	LED (1608, PG)	M2
D5-20			B30-1567-05	LED (1608, RED)	KK1
ED1	2C	*	B38-1171-05	LCD	
C1			CK73GB1H102K	CHIP C 1000PF K	
C2			CK73GB1H103K	CHIP C 0.010UF K	
C3,4			CK73GB1H473K	CHIP C 0.047UF K	
C5			CK73FB1A225K	CHIP C 2.2UF K	K2
284	2C	*	E29-2068-04	CONDUCTIVE RUBBER	
J1		*	E59-0851-05	RECTANGULAR PLUG	
R1			RK73GB2A563J	CHIP R 56K J 1/10W	
R2			RK73GB2A4R7J	CHIP R 4.7 J 1/10W	
R3			RK73GB2A472J	CHIP R 4.7K J 1/10W	

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

SWITCH UNIT (X16-356x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
R5-9			RK73GB2A471J	CHIP R 470 J 1/10W	
R10			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R11			RK73GB2A102J	CHIP R 1.0K J 1/10W	K2
R12			RK73GB2A101J	CHIP R 100 J 1/10W	K2
R21			RK73EB2E431J	CHIP R 430 J 1/4W	
R24-29			RK73FB2B431J	CHIP R 430 J 1/8W	K2E5M1
R24-29			RK73FB2B431J	CHIP R 430 J 1/8W	M2
R24-29			RK73FB2B471J	CHIP R 470 J 1/8W	KK1
W1			R92-1252-05	CHIP R 0 OHM J 1/16W	
S1			S70-0106-05	TACT SWITCH	
S2			T99-0457-15	ROTARY ENCODER	
D31-36			UDZS5.6B	ZENER DIODE	
D37			DA204U	DIODE	K2
D38			DA204U	DIODE	
IC1			LC75853NE-E	MOS-IC	
IC2			PNA4S22M	ANALOGUE IC	K2
Q1			DTA114EE	DIGITAL TRANSISTOR	

CD PLAYER UNIT (X32-5840-00)

C1			CK73EB1A106K	CHIP C 10UF K	
C2			CK73FB1A225K	CHIP C 2.2UF K	
C3			CK73GB1A105K	CHIP C 1.0UF K	
C5			CC73GCH1H020C	CHIP C 2.0PF C	
C6			CC73GCH1H390J	CHIP C 39PF J	
C7			CK73GB1H104K	CHIP C 0.10UF K	
C8			CK73GB1A105K	CHIP C 1.0UF K	
C9			CK73GB1H472K	CHIP C 4700PF K	
C10			CK73GB1H333K	CHIP C 0.033UF K	
C11			CK73GB1H682K	CHIP C 6800PF K	
C12			CK73GB1H332K	CHIP C 3300PF K	
C13			CC73GCH1H271J	CHIP C 270PF J	
C14			CK73GB1H472K	CHIP C 4700PF K	
C15			CK73GB1H222K	CHIP C 2200PF K	
C16			CC73GCH1H331J	CHIP C 330PF J	
C17,18			CK73GB1H104K	CHIP C 0.10UF K	
C31-34			CK73GB1H104K	CHIP C 0.10UF K	
C36			CK73FB1A225K	CHIP C 2.2UF K	
C37-39			CK73GB1H103K	CHIP C 0.010UF K	
C40			CK73GB1H153K	CHIP C 0.015UF K	
C41			CK73GB1H102K	CHIP C 1000PF K	
C42			CK73GB1H473K	CHIP C 0.047UF K	
C43			CK73GB1H222K	CHIP C 2200PF K	
C44			CK73GB1H102K	CHIP C 1000PF K	
C45-47			CK73GB1H104K	CHIP C 0.10UF K	
C48			CK73GB1H682K	CHIP C 6800PF K	
C49			CK73GB1H152K	CHIP C 1500PF K	
C50			CK73GB1H472K	CHIP C 4700PF K	
C51			CK73GB1H681K	CHIP C 680PF K	
C52			CK73GB1H104K	CHIP C 0.10UF K	
C61			CK73FB1A225K	CHIP C 2.2UF K	
C62			CK73GB1H104K	CHIP C 0.10UF K	
C71,72			CK73GB1H471K	CHIP C 470PF K	
C73,74			CC73GCH1H680J	CHIP C 68PF J	
C75,76			CK73GB1H222K	CHIP C 2200PF K	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
C77,78			CK73GB1H104K	CHIP C 0.10UF K	
C100-102			CK73GB1H102K	CHIP C 1000PF K	
CN1			E41-2297-05	FLAT CABLE CONNECTOR	
CN2			E41-2082-15	FLAT CABLE CONNECTOR	
X1			L78-0851-05	RESONATOR (16.93MHZ)	
CP1			RK74GA1J101J	CHIP-COM 100 J 1/16W	
CP2			RK74GB1J101J	CHIP-COM 100 J 1/16W	
CP3			RK74GB1J182J	CHIP-COM 1.8K J 1/16W	
CP4			RK74GB1J472J	CHIP-COM 4.7K J 1/16W	
CP5			RK74GB1J104J	CHIP-COM 100K J 1/16W	
R1			RK73GB2A910J	CHIP R 91 J 1/10W	
R2,3			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R4			RK73FB2B100J	CHIP R 10 J 1/8W	
R5,6			RK73GB2A332J	CHIP R 3.3K J 1/10W	
R7			RK73GB2A362J	CHIP R 3.6K J 1/10W	
R8			RK73GB2A273J	CHIP R 27K J 1/10W	
R9			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R10			RK73GB2A104J	CHIP R 100K J 1/10W	
R11			RK73GB2A333J	CHIP R 33K J 1/10W	
R12			RK73GB2A244J	CHIP R 240K J 1/10W	
R13			RK73GB2A364J	CHIP R 360K J 1/10W	
R14			RK73GB2A104J	CHIP R 100K J 1/10W	
R15			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R31			RK73GB2A273J	CHIP R 27K J 1/10W	
R32			RK73GB2A103J	CHIP R 10K J 1/10W	
R33			RK73GB2A183J	CHIP R 18K J 1/10W	
R34			RK73GB2A103J	CHIP R 10K J 1/10W	
R35			RK73GB2A393J	CHIP R 39K J 1/10W	
R36			RK73GB2A103J	CHIP R 10K J 1/10W	
R37			RK73GB2A622J	CHIP R 6.2K J 1/10W	
R38			RK73GB2A224J	CHIP R 220K J 1/10W	
R39			RK73GB2A104J	CHIP R 100K J 1/10W	
R40			RK73GB2A821J	CHIP R 820 J 1/10W	
R41			RK73GB2A473J	CHIP R 47K J 1/10W	
R42			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R43			RK73GB2A102J	CHIP R 1.0K J 1/10W	
R44,45			RK73GB2A103J	CHIP R 10K J 1/10W	
R46			RK73GB2A273J	CHIP R 27K J 1/10W	
R47			RK73GB2A222J	CHIP R 2.2K J 1/10W	
R48			RK73GB2A103J	CHIP R 10K J 1/10W	
R49			RK73GB2A473J	CHIP R 47K J 1/10W	
R50			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R51			RK73GB2A103J	CHIP R 10K J 1/10W	
R52,53			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R71			RK73GB2A133J	CHIP R 13K J 1/10W	
R72			RK73FB2B201J	CHIP R 200 J 1/8W	
R81,82			RK73FB2B183J	CHIP R 18K J 1/8W	
R83,84			RK73FB2B203J	CHIP R 20K J 1/8W	
R85,86			RK73FB2B123J	CHIP R 12K J 1/8W	
R87,88			RK73FB2B331J	CHIP R 330 J 1/8W	
R89,90			RK73GB2A392J	CHIP R 3.9K J 1/10W	
R91,92			RK73GB2A562J	CHIP R 5.6K J 1/10W	
R100			RK73GB2A100J	CHIP R 10 J 1/10W	

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

CD PLAYER UNIT (X32-5840-00)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
S1,2			S68-0863-05	PUSH SWITCH		C510			CC73GCH1H101J	CHIP C 100PF	J
S3			S68-0862-05	PUSH SWITCH		C511			CK73GB1H103K	CHIP C 0.010UF	K
D1			DAN202U	DIODE		C512			CD04AT1V4R7M	ELECTRO 4.7UF	35WV
D2			MAZS0510L	ZENER DIODE		C513,514			CK73GB1H103K	CHIP C 0.010UF	K
D3			DA204U	DIODE		C515			CK73FB1C105K	CHIP C 1.0UF	K
IC1			AN22002A-V	ANALOGUE IC		C516			CC73GCH1H100D	CHIP C 10PF	D
IC2			MN6627771KS	MOS-IC		C521			CK73GB1H104K	CHIP C 0.10UF	K
IC3			BA5824FP	ANALOGUE IC		C522			CC73GCH1H330J	CHIP C 33PF	J
IC4			NJM4580M1-ZB	ANALOGUE IC		C523			CC73GCH1H270J	CHIP C 27PF	J
Q1			2SB0970	TRANSISTOR		C524			CC73GCH1H101J	CHIP C 100PF	J
Q2			2SA1362(Y)-F	TRANSISTOR		C525			CK73GB1H103K	CHIP C 0.010UF	K
Q3			DTC124EUA	DIGITAL TRANSISTOR		C526			CC73GCH1H050C	CHIP C 5.0PF	C
Q4			DTA143XUA	DIGITAL TRANSISTOR		C527			CK73GB1H102K	CHIP C 1000PF	K
Q5			2SC4081	TRANSISTOR		C528			CC73GCH1H060D	CHIP C 6.0PF	D
Q6			2SA1576A	TRANSISTOR		C530			CC73GCH1H040C	CHIP C 4.0PF	C
ELECTRIC UNIT (X34-419x-xx)											
C1			C90-5683-05	ELECTRO 3300UF 16WV		C531			CK73FB1C105K	CHIP C 1.0UF	K
C21			CK73GB1H103K	CHIP C 0.010UF K	E5M1M2	C533,534			CK73GB1H103K	CHIP C 0.010UF	K
C30			CK73GB1H103K	CHIP C 0.010UF K		C535			CC73GCH1H020C	CHIP C 2.0PF	C
C40			CK73GB1H103K	CHIP C 0.010UF K		C536			CC73GCH1H040C	CHIP C 4.0PF	C
C50			CD04AS1V100M	ELECTRO 10UF 35WV		C537,538			CC73GCH1H080D	CHIP C 8.0PF	D
C50,51			CD04AS1V100M	ELECTRO 10UF 35WV	E5M1M2	C541			CC73GCH1H040C	CHIP C 4.0PF	C
C52-55			CD04AS1V100M	ELECTRO 10UF 35WV		C542			CC73GCH1H220J	CHIP C 22PF	J
C56			CD04AT1H100M	ELECTRO 10UF 50WV		C543			CC73GCH1H680J	CHIP C 68PF	J
C57	*		CD04BD1C221M	ELECTRO 220UF 16WV		C544			CC73GCH1H150J	CHIP C 15PF	J
C58			C90-5686-05	ELECTRO 100UF 16WV		C545			CK73GB1H682K	CHIP C 6800PF	K
C63			CD04AS1C220M	ELECTRO 22UF 16WV		C546			CK73GB1H103K	CHIP C 0.010UF	K
C101			CD04AS0J101M	ELECTRO 100UF 6.3WV		C547			CD04AT1C100M	ELECTRO 10UF	16WV
C102			CK73GB1H103K	CHIP C 0.010UF K		C548			CK73GB1H223K	CHIP C 0.022UF	K
C103			CK73GB1H104K	CHIP C 0.10UF K		C549			CK73GB1H222K	CHIP C 2200PF	K
C104,105			CC73GCH1H150J	CHIP C 15PF J		C550			CK73GB1H333K	CHIP C 0.033UF	K
C106			CK73GB1H102K	CHIP C 1000PF K	E5	C551,552			CK73GB1H103K	CHIP C 0.010UF	K
C106			CK73GB1H152K	CHIP C 1500PF K	KK1K2	C553			CK73GB1H104K	CHIP C 0.10UF	K
C106			CK73GB1H152K	CHIP C 1500PF K	M1M2	C553			CK73GB1H104K	CHIP C 0.10UF	K
C142			CK73GB1H104K	CHIP C 0.10UF K		C554			CK73GB1H473K	CHIP C 0.047UF	K
C145,146			CK73GB1H104K	CHIP C 0.10UF K		C554			CK73GB1H104K	CHIP C 0.10UF	K
C204,205			CD04AS1H2R2M	ELECTRO 2.2UF 50WV		C555,556			CK73GB1H102K	CHIP C 1000PF	K
C223,224			CD04AS1V100M	ELECTRO 10UF 35WV	KK1K2	C560			CC73GCH1H101J	CHIP C 100PF	J
C223,224			CD04AS1V100M	ELECTRO 10UF 35WV	M1M2	C561			CD04AT1H010M	ELECTRO 1UF	50WV
C251-254			C90-5684-05	NP-ELECT 0.22UF 50WV		C562			CD04AT1C100M	ELECTRO 10UF	16WV
C255			CD04AS1H010M	ELECTRO 1UF 50WV		C563			CD04AT1HR47M	ELECTRO 0.47UF	50WV
C256			CD04AS1C101M	ELECTRO 100UF 16WV	KK2E5	C564			CK73GB1A474K	CHIP C 0.47UF	K
C256			CD04AS1C101M	ELECTRO 100UF 16WV	M1	C565			CD04AS1C470M	ELECTRO 47UF	16WV
C256			CD04AS1C330M	ELECTRO 33UF 16WV	K1M2	C568			CC73GCH1H821J	CHIP C 820PF	J
C257			CD04AS1H010M	ELECTRO 1UF 50WV		C580			CK73GB1H103K	CHIP C 0.010UF	K
C258			C90-5663-05	ELECTRO 1UF 50WV		C581			CC73GCH1H020C	CHIP C 2.0PF	C
C502			CK73GB1H152K	CHIP C 1500PF K		C582,583			CK73GB1H104K	CHIP C 0.10UF	K
C503			CK73GB1H104K	CHIP C 0.10UF K		C584			CD04AT1V4R7M	ELECTRO 4.7UF	35WV
C504			CK73GB1H103K	CHIP C 0.010UF K		C585			CK73GB1H103K	CHIP C 0.010UF	K
C505			CD04AT1V4R7M	ELECTRO 4.7UF 35WV		C586			CK73GB1H104K	CHIP C 0.10UF	K
C506			CK73GB1H104K	CHIP C 0.10UF K		C587			CK73GB1H103K	CHIP C 0.010UF	K
C507			CD04AT1A330M	ELECTRO 33UF 10WV		C588			CK73GB1A474K	CHIP C 0.47UF	K
C508			CD04AT1C220M	ELECTRO 22UF 16WV		C589			CK73GB1H104K	CHIP C 0.10UF	K
C509			CC73GCH1H680J	CHIP C 68PF J		C591			CD04AT1A330M	ELECTRO 33UF	10WV
						C593			CK73FB1C105K	CHIP C 1.0UF	K
						C600			CD04AT1A101M	ELECTRO 100UF	10WV

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-419x-xx)

Ref. No.	Ad	New	Parts No.	Description	Desti- nation	Ref. No.	Ad	New	Parts No.	Description	Desti- nation
CN1		*	E41-2611-05	FLAT CABLE CONNECTOR		R73			RK73GB2A104J	CHIP R 100K J 1/10W	
J1	2D		E04-0326-05	RF COAXIAL CABLE RECEPTACLE		R74,75			RK73GB2A103J	CHIP R 10K J 1/10W	
J2	2D		E58-0991-05	RECTANGULAR RECEPTACLE		R76,77			RK73GB2A222J	CHIP R 2.2K J 1/10W	
J3	2D		E58-0992-05	RECTANGULAR RECEPTACLE		R78,79			RK73GB2A102J	CHIP R 1.0K J 1/10W	
J5	2D		E63-0852-05	PIN JACK	KK1K2	R103,104			RK73GB2A102J	CHIP R 1.0K J 1/10W	
J5	2D		E63-0852-05	PIN JACK	M1M2	R105			RK73GB2A471J	CHIP R 470 J 1/10W	
WH1		*	E39-0802-05	WIRING HARNESS	K1	R106			RK73GB2A104J	CHIP R 100K J 1/10W	
CF51			L72-0805-05	CERAMIC FILTER		R107,108			RK73GB2A222J	CHIP R 2.2K J 1/10W	
CF52,53			L72-0805-05	CERAMIC FILTER	KK1K2	R110			RK73GB2A472J	CHIP R 4.7K J 1/10W	
CF52,53			L72-0805-05	CERAMIC FILTER	M1M2	R113,114			RK73GB2A473J	CHIP R 47K J 1/10W	
CF52,53		*	L72-0806-05	CERAMIC FILTER	E5	R115			RK73GB2A102J	CHIP R 1.0K J 1/10W	
CF54			L72-0804-05	CERAMIC FILTER		R116			RK73GB2A103J	CHIP R 10K J 1/10W	
L1			L33-1988-05	CHOKO COIL ASSY		R117			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L2		*	L33-2298-05	CHOKO COIL		R118			RK73GB2A103J	CHIP R 10K J 1/10W	
L4			L33-2260-05	CHOKO COIL		R119			RK73GB2A473J	CHIP R 47K J 1/10W	
L101			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)		R121			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L501			L40-6891-58	SMALL FIXED INDUCTOR (6.8UH)		R122			RK73GB2A101J	CHIP R 100 J 1/10W	
L502			L40-3301-58	SMALL FIXED INDUCTOR (33UH)		R123			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L503			L40-1021-56	SMALL FIXED INDUCTOR (1MH)		R125			RK73GB2A102J	CHIP R 1.0K J 1/10W	
L504			L40-1011-58	SMALL FIXED INDUCTOR (100UH)		R126			RK73GB2A104J	CHIP R 100K J 1/10W	
L505		*	L31-0979-05	FM-RF COIL		R127			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L506		*	L31-0981-05	FM-RF COIL		R128			RK73GB2A225J	CHIP R 2.2M J 1/10W	
L507		*	L32-0945-05	FM OSCILLATING COIL		R129,130			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L508		*	L30-0779-05	FM IFT		R131			RK73GB2A682J	CHIP R 6.8K J 1/10W	
L509		*	L30-0781-05	AM IFT		R132			RK73GB2A222J	CHIP R 2.2K J 1/10W	
L510			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)		R133			RK73GB2A123J	CHIP R 12K J 1/10W	
L512-514			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)		R135			RK73GB2A473J	CHIP R 47K J 1/10W	M1M2
L516,517			L40-4795-91	SMALL FIXED INDUCTOR (4.7UH)		R136			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2
X1			L77-1167-05	CRYSTAL RESONATOR (4.19MHZ)		R137			RK73GB2A473J	CHIP R 47K J 1/10W	E5
X501			L77-2077-05	CRYSTAL RESONATOR (10.25MHZ)		R138			RK73GB2A473J	CHIP R 47K J 1/10W	E5
F	2D		N80-3010-48	PAN HEAD TAPTITE SCREW		R138			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2
G	2D		N83-3005-48	PAN HEAD TAPTITE SCREW		R139			RK73GB2A473J	CHIP R 47K J 1/10W	M1M2
H	2D		N83-3020-48	PAN HEAD TAPTITE SCREW		R140			RK73GB2A473J	CHIP R 47K J 1/10W	M1M2
J	2D		N86-2606-48	BINDING HEAD TAPTITE SCREW		R140			RK73GB2A473J	CHIP R 47K J 1/10W	KK1K2
R10			RK73FB2B303J	CHIP R 30K J 1/8W		R141			RD14BB2C472J	RD 4.7K J 1/6W	E5
R11			RK73GB2A103J	CHIP R 10K J 1/10W		R143			RK73GB2A472J	CHIP R 4.7K J 1/10W	
R12			RK73GB2A104J	CHIP R 100K J 1/10W		R144			RK73GB2A104J	CHIP R 100K J 1/10W	
R20			RD14DB2H332J	SMALL-RD 3.3K J 1/2W		R145			RD14BB2C222J	RD 2.2K J 1/6W	
R21			RD14BB2C333J	RD 33K J 1/6W		R163			RD14BB2C100J	RD 10 J 1/6W	
R22			RK73GB2A103J	CHIP R 10K J 1/10W		R164,165			RD14BB2C471J	RD 470 J 1/6W	
R23			RK73GB2A104J	CHIP R 100K J 1/10W		R166			RD14BB2C102J	RD 1.0K J 1/6W	
R25			RD14BB2C472J	RD 4.7K J 1/6W	E5M1M2	R167			RD14BB2C101J	RD 100 J 1/6W	
R28			RD14BB2C472J	RD 4.7K J 1/6W		R169			RD14BB2C102J	RD 1.0K J 1/6W	
R30			RD14BB2C103J	RD 10K J 1/6W	E5M1M2	R170,171			RD14BB2C102J	RD 1.0K J 1/6W	K2
R31			RK73GB2A473J	CHIP R 47K J 1/10W	E5M1M2	R172			RD14BB2C470J	RD 47 J 1/6W	
R32			RK73GB2A223J	CHIP R 22K J 1/10W	E5M1M2	R174			RK73GB2A473J	CHIP R 47K J 1/10W	
R50			RD14BB2C562J	RD 5.6K J 1/6W		R181,182			RK73EB2E100J	CHIP R 10 J 1/4W	
R51			RK73GB2A473J	CHIP R 47K J 1/10W		R183-186			RK73GB2A103J	CHIP R 10K J 1/10W	
R57			RK73FB2B152J	CHIP R 1.5K J 1/8W		R201			RK73GB2A473J	CHIP R 47K J 1/10W	
R58			RD14BB2C471J	RD 470 J 1/6W		R223,224			RK73FB2B271J	CHIP R 270 J 1/8W	KK1K2
R67			RK73GB2A103J	CHIP R 10K J 1/10W	M1M2	R223,224			RK73FB2B271J	CHIP R 270 J 1/8W	M1M2
R68,69			RK73GB2A103J	CHIP R 10K J 1/10W		R227,228			RD14BB2C303J	RD 30K J 1/6W	KK1K2
R71			RK73GB2A823J	CHIP R 82K J 1/10W		R227,228			RD14BB2C303J	RD 30K J 1/6W	M1M2
R72			RK73GB2A363J	CHIP R 36K J 1/10W		R231,232			RD14BB2C101J	RD 100 J 1/6W	KK1K2

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-419x-xx)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R231,232			RD14BB2C101J	RD 100 J 1/6W	M1M2	W405,406			R92-1252-05	CHIP R 0 OHM J 1/16W	K1M2
R251			RK73GB2A472J	CHIP R 4.7K J 1/10W	KK2E5	W409			R92-1252-05	CHIP R 0 OHM J 1/16W	K1M2
R251			RK73GB2A472J	CHIP R 4.7K J 1/10W	M1	W410			R92-1252-05	CHIP R 0 OHM J 1/16W	E5
R252,253			RD14BB2C472J	RD 4.7K J 1/6W	KK2E5	W415			R92-2053-05	CHIP R 0 OHM J 1/8W	
R252,253			RD14BB2C472J	RD 4.7K J 1/6W	M1	W500,501			R92-1252-05	CHIP R 0 OHM J 1/16W	
R254			RK73GB2A472J	CHIP R 4.7K J 1/10W	KK2E5	W506			R92-2053-05	CHIP R 0 OHM J 1/8W	
R254			RK73GB2A472J	CHIP R 4.7K J 1/10W	M1	W507			R92-1252-05	CHIP R 0 OHM J 1/16W	
R255			RK73GB2A333J	CHIP R 33K J 1/10W		W508			R92-2053-05	CHIP R 0 OHM J 1/8W	
R256			RK73FB2B102J	CHIP R 1.0K J 1/8W	KK2E5	W509			R92-1252-05	CHIP R 0 OHM J 1/16W	
R256			RK73FB2B102J	CHIP R 1.0K J 1/8W	M1	W510			R92-2053-05	CHIP R 0 OHM J 1/8W	
R257			RK73GB2A113J	CHIP R 11K J 1/10W		W511			R92-1252-05	CHIP R 0 OHM J 1/16W	
R258			RK73GB2A101J	CHIP R 100 J 1/10W	KK2E5	W516			R92-1252-05	CHIP R 0 OHM J 1/16W	KK1K2
R258			RK73GB2A101J	CHIP R 100 J 1/10W	M1	W516			R92-1252-05	CHIP R 0 OHM J 1/16W	M1M2
R258			RK73GB2A221J	CHIP R 220 J 1/10W	K1M2	W517			R92-2053-05	CHIP R 0 OHM J 1/8W	
R259			RD14BB2C223J	RD 22K J 1/6W		W519			R92-2053-05	CHIP R 0 OHM J 1/8W	
R260			RK73GB2A751J	CHIP R 750 J 1/10W	KK2E5	W521			R92-1252-05	CHIP R 0 OHM J 1/16W	
R260			RK73GB2A751J	CHIP R 750 J 1/10W	M1	W523,524			R92-1252-05	CHIP R 0 OHM J 1/16W	
R261			RK73GB2A100J	CHIP R 10 J 1/10W	K1M2	W530			R92-2053-05	CHIP R 0 OHM J 1/8W	
R261			RK73GB2A431J	CHIP R 430 J 1/10W	KK2E5	W531,532			R92-1252-05	CHIP R 0 OHM J 1/16W	
R261			RK73GB2A431J	CHIP R 430 J 1/10W	M1	W533			R92-2053-05	CHIP R 0 OHM J 1/8W	
R263			RK73GB2A184J	CHIP R 180K J 1/10W	KK2E5	W534			R92-1252-05	CHIP R 0 OHM J 1/16W	
R263			RK73GB2A184J	CHIP R 180K J 1/10W	M1	W578			R92-1252-05	CHIP R 0 OHM J 1/16W	E5M1M2
R263			RK73GB2A432J	CHIP R 4.3K J 1/10W	K1M2	W601			R92-1252-05	CHIP R 0 OHM J 1/16W	
R264			RK73GB2A473J	CHIP R 47K J 1/10W		W602			R92-2053-05	CHIP R 0 OHM J 1/8W	
R415			RK73GB2A104J	CHIP R 100K J 1/10W		D1			S2V60*A	DIODE	
R501			RK73GB2A682J	CHIP R 6.8K J 1/10W		D3	*		IMS A-6802-E	SURGE ABSORBER	
R502			RK73GB2A222J	CHIP R 2.2K J 1/10W		D10	*		MAZ4068N(M)	ZENER DIODE	
R503			RK73EB2E222J	CHIP R 2.2K J 1/4W		D11			D1F60-5063	DIODE	E5M1M2
R505			RK73GB2A102J	CHIP R 1.0K J 1/10W		D12			AM01ZNF	DIODE	E5M1M2
R506			RK73GB2A105J	CHIP R 1.0M J 1/10W		D13			D1F60-5063	DIODE	
R507			RK73GB2A102J	CHIP R 1.0K J 1/10W		D14			AM01ZNF	DIODE	
R521-524			RK73GB2A104J	CHIP R 100K J 1/10W		D20	*		MAZ4068N(M)	ZENER DIODE	
R525			RK73GB2A331J	CHIP R 330 J 1/10W	E5	D30	*		MAZ4047(M)	ZENER DIODE	E5M1M2
R525			RK73GB2A821J	CHIP R 820 J 1/10W	KK1K2	D40			1SS133	DIODE	
R525			RK73GB2A821J	CHIP R 820 J 1/10W	M1M2	D50			DAN202U	DIODE	
R526			RK73GB2A562J	CHIP R 5.6K J 1/10W		D51	*		MAZ4082N(L)	ZENER DIODE	
R527			RK73GB2A104J	CHIP R 100K J 1/10W		D70	*		MAZ4068N(M)	ZENER DIODE	
R528			RD14BB2C104J	RD 100K J 1/6W		D101			1SS133	DIODE	
R543			RK73GB2A562J	CHIP R 5.6K J 1/10W		D103			DA204U	DIODE	
R544			RK73GB2A222J	CHIP R 2.2K J 1/10W		D106	*		MAZ4062(L)	ZENER DIODE	
R545			RK73GB2A432J	CHIP R 4.3K J 1/10W		D108	*		MAZ4062(L)	ZENER DIODE	K2
R546			RK73GB2A333J	CHIP R 33K J 1/10W		D110			UDZS12B	ZENER DIODE	
R547			RK73GB2A220J	CHIP R 22 J 1/10W		D201,202	*		MAZ4068N(M)	ZENER DIODE	
R561			RK73GB2A272J	CHIP R 2.7K J 1/10W		D251-253			1SS133	DIODE	
R563,564			RK73GB2A103J	CHIP R 10K J 1/10W		D261-263			AM01ZNF	DIODE	K1M2
R565			RK73GB2A104J	CHIP R 100K J 1/10W		D264			1SR154-400	DIODE	K1M2
R566,567			RK73GB2A102J	CHIP R 1.0K J 1/10W		D265,266			AM01ZNF	DIODE	K1M2
R581			RK73GB2A102J	CHIP R 1.0K J 1/10W		D267,268			1SR154-400	DIODE	K1M2
R585			RD14BB2C1R0J	RD 1.0 J 1/6W		D501			RN739F	DIODE	
W121			R92-2053-05	CHIP R 0 OHM J 1/8W		D503			RN739F	DIODE	
W156			R92-2053-05	CHIP R 0 OHM J 1/8W		D504-506	*		KV1720STL-G	VARIABLE CAPACITANCE DIODE	
W158			R92-1252-05	CHIP R 0 OHM J 1/16W		IC1	*		780058GC630A	MICROCONTROLLER IC	
W160			R92-2052-05	CHIP R 0 OHM J 1/10W	M1M2	IC4	*		E-TDA7386	ANALOGUE IC	KK2E5
W161,162			R92-2053-05	CHIP R 0 OHM J 1/8W		IC4	*		E-TDA7386	ANALOGUE IC	M1
W165			R92-2053-05	CHIP R 0 OHM J 1/8W							

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

△ Indicates safety critical components.

PARTS LIST

ELECTRIC UNIT (X34-419x-xx)

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
IC4			E-TDA7560	ANALOGUE IC	K1M2
IC7			BA4911-V4	ANALOGUE IC	
IC8			HD74HC27FP-E	MOS-IC	
IC10		*	E-TDA7513T	ANALOGUE IC	
IC11		*	PST3435UL-E	MOS-IC	
IC12			BR24L04FV-W	ROM IC	
Q10			2SC4081	TRANSISTOR	
Q20			2SC4081	TRANSISTOR	
Q40			DTA124EUA	DIGITAL TRANSISTOR	KK1K2
Q40			DTA124EUA	DIGITAL TRANSISTOR	M1M2
Q50			2SA1036K	TRANSISTOR	
Q51			UMC2N	TRANSISTOR	
Q53			UMC2N	TRANSISTOR	M1M2
Q55			2SD2396(J,K)	TRANSISTOR	
Q70			2SC4081	TRANSISTOR	
Q102			DTA114YUA	DIGITAL TRANSISTOR	
Q223,224			DTC143TUA	DIGITAL TRANSISTOR	KK1K2
Q223,224			DTC143TUA	DIGITAL TRANSISTOR	M1M2
Q251			DTC114YUA	DIGITAL TRANSISTOR	KK2E5
Q251			DTC114YUA	DIGITAL TRANSISTOR	M1
Q501			HN3G01J(BL)-F	TRANSISTOR	
Q502		*	3SK126-F	DUAL FET	
TH1			PRF21BE471QB2	POSITIVE RESISTOR	
DAUGHTER UNIT (X89-2690-10)					
C221,222			CD04AS1C100M	ELECTRO 10UF 16WV	K1
CN90			E41-0956-05	PIN ASSY	K1
CN91			E41-0930-05	PIN ASSY	K1
W101			E31-0001-00	JUMPER WIRE	K1
R221,222			RK73GB2A271J	CHIP R 270 J 1/10W	K1
R225,226			RK73GB2A303J	CHIP R 30K J 1/10W	K1
R229,230			RD14BB2C101J	RD 100 J 1/6W	K1
Q221,222			DTC143TUA	DIGITAL TRANSISTOR	K1
Q225			DTA124EUA	DIGITAL TRANSISTOR	K1
MECHANISM ASSY (X92-5450-00)					
2	1B		A10-4827-32	CHASSIS	
5	1B		D10-4576-83	ARM ASSY	
8	2A		D10-4579-23	LEVER ASSY	
10	2A		D10-4581-13	ARM	
11	2A		D10-4582-13	ARM	
12	3A		D10-4583-03	ARM	
13	3A		D10-4584-03	ARM	
14	3B		D10-4585-03	ARM	
15	2A		D10-4586-13	SLIDER	
16	3B		D10-4587-52	SLIDER	
17	2B		D10-4588-13	SLIDER	
18	2B		D10-4595-04	ARM	
19	2B		D10-4596-24	ARM	
22	2A		D13-2151-04	GEAR	
23	2B		D13-2152-04	GEAR	
24	3B		D13-2153-04	GEAR	
25	3B		D13-2154-04	GEAR	
26	3B		D13-2155-04	WORM	

Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
27	2B		D13-2156-14	GEAR	
28	3B		D13-2157-04	GEAR	
29	2B		D13-2158-04	GEAR	
30	2B		D13-2168-04	GEAR	
31	3B		D13-2171-04	GEAR	
32	1B	*	D13-2381-03	RACK (GEAR)	
33	2A		D14-0759-04	ROLLER	
35	2B		D21-2382-04	SHAFT	
36	1A		D23-0954-04	RETAINER	
37	1B		D39-0246-05	DAMPER	
38	2B		G01-3072-04	EXTENSION SPRING	
39	2A		G01-3073-04	TORSION COIL SPRING	
40	2A		G01-3074-04	EXTENSION SPRING	
41	1B		G01-3075-24	EXTENSION SPRING	
42	2A		G01-3076-04	EXTENSION SPRING	
43	1B		G01-3077-14	EXTENSION SPRING	
44	2B		G02-1399-04	FLAT SPRING	
45	2B		G02-1408-04	FLAT SPRING	
46	2A		G13-1258-04	CUSHION	
51	1A		J21-9676-32	MOUNTING HARDWARE	
52	3B		J21-9677-22	MOUNTING HARDWARE	
53	1B		J21-9678-13	MOUNTING HARDWARE	
55	1A		J90-1001-11	GUIDE	
56	1B		J90-1023-03	GUIDE	
DFPC1	3A		J84-0141-05	FLEXIBLE PRINTED WIRING BOARD	
A	2B		N09-4460-05	TAPTITE SCREW (OVAL P TAPTIT)	
B	1B	*	N09-6317-05	MACHINE SCREW (M1.6X6.0)	
C	2B		N09-6004-05	MACHINE SCREW (M1.7X2.5)	
E	2B		N09-6007-05	MACHINE SCREW (PAN M2X2)	
F	1A		N09-6051-05	TAPTITE SCREW (BIND P 2X5)	
G	2A		N19-2163-04	FLAT WASHER	
H	1B		N39-2020-46	PAN HEAD MACHINE SCREW	
J	1B		N09-6108-05	MACHINE SCREW (M2X3.5)	
K	3B		N09-6155-05	SEMS (TAPTITE SCREW) (PT2X6)	
DM1	3B	*	T42-1066-14	DC MOTOR (SPINDLE)	
DM2	2B	*	T42-1067-14	DC MOTOR (LOADING)	
DPU1	2B	*	X93-2130-00	OPTICAL PICKUP ASSY	

K : KDC-132 K1 : KDC-1032 K2 : KDC-132CR M1 : KDC-133 M2 : KDC-233 E5 : KDC-234SGY
(E : Europe K : North America M : Other Areas W : Without Europe)

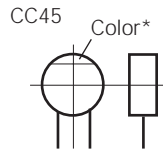
△ Indicates safety critical components.

PARTS LIST

CAPACITORS

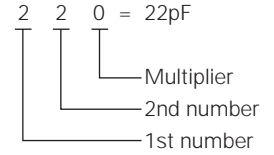
CC 45 TH 1H 220 J
1 2 3 4 5 6

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



• Capacitor value

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



• Temperature coefficient

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

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

Example : CC45TH = -470±60ppm/°C

• Tolerance (More than 10pF)

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

(Less than 10pF)

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

• Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	2150	4000	5000	6300	8000	-

CHIP CAPACITORS

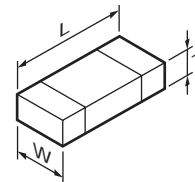
(EX) CC 73 F SL 1H 000 J
1 2 3 4 5 6 7
(Chip) (CH, RH, UJ, SL)

(EX) CK 73 F F 1H 000 Z
1 2 3 4 5 6 7
(Chip) (B, F)

Refer to the table above.

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

• Dimension



Chip capacitor

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

Chip resistor

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

RESISTORS

• Chip resistor (Carbon)

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

• Carbon resistor (Normal type)

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

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

• Rating wattage

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

SPECIFICATIONS

FM

Frequency Range (Frequency Step)	
KDC-1032/132/132CR	87.9MHz~107.9MHz (200kHz)
KDC-133/233	87.5MHz~108.0MHz (50kHz)
	87.9MHz~107.9MHz (200kHz)
KDC-234SGY	87.5MHz~108.0MHz (50kHz)
Channel Space Selection	
KDC-1032/132/132CR/133/233	50kHz/200kHz
Usable Sensitivity (S/N : 26dB)	
KDC-234SGY	0.7μV/75Ω
Usable Sensitivity (S/N : 30dB)	
KDC-1032/132/132CR/133/233	9.3dBf (0.8μV/75Ω)
Quieting Sensitivity (S/N : 46dB)	
KDC-234SGY	1.6μV/75Ω
Quieting Sensitivity (S/N : 50dB)	
KDC-1032/132/132CR/133/233	15.2dBf (1.6μV/75Ω)
Frequency Response (±3.0dB)	30Hz~15kHz
S/N	
KDC-1032/132/132CR/133/233	70dB (MONO)
KDC-234SGY	65dB (MONO)
Selectivity	≥80dB (±400kHz)
Stereo Separation	
KDC-1032/132/132CR/133/233	40dB (1kHz)
KDC-234SGY	35dB (1kHz)

AM (MW)

Frequency Range (Frequency Step)	
KDC-1032/132/132CR	530kHz~1700kHz (10kHz)
KDC-133/233	531kHz~1611kHz (9kHz)
	530kHz~1700kHz (10kHz)
KDC-234SGY	531kHz~1611kHz (9kHz)
Channel Space Selection	
KDC-1032/132/132CR/133/233	9kHz/10kHz
Usable Sensitivity (S/N : 20dB)	28dBμV (25μV)

LW (KDC-234SGY)

Frequency Range	153kHz~281kHz
Usable Sensitivity (S/N : 20dB)	45μV

CD

Laser Diode	GaAlAs
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1 Bit
Spindle Speed	500rpm~200rpm (CLV)

Wow & Flutter	Below Mesurable Limit
Frequency Response	10Hz~20kHz (±1dB)
Total Harmonic Distortion	0.01% (1kHz)
S/N Ratio	93dB (1kHz)
Dynamic Range	93dB
Channel Separation	85dB

Preout Level / Load

KDC-1032/132/132CR/133/233	2000mV/10kΩ (CD/CD-CH)
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Preout Impedance

KDC-1032/132/132CR/133/233	≤600Ω
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Speaker Impedance	4Ω~8Ω
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Amplifier

Maximum Power

KDC-1032/233	50W x 4
KDC-132/132CR/133/234SGY	45W x 4

Full Bandwidth Power (at less than 1% THD)

KDC-1032/132/132CR/133/233	22W x 4
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Power (DIN45324, +B=14.4V)

KDC-234SGY	28W x 4
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Tone

Bass	100Hz±8dB
Middle	1kHz±8dB
Treble	10kHz±8dB

General

Operating Voltage (11V~16V allowable)	14.4V
Current Consumption	10A
Installation Size	
Width	182mm (7-3/16inch)
Height	53mm (2-1/16inch)
Depth	155mm (6-1/10inch)
Weight	1.30kg (2.9lbs)

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

