

CD PLAYER

CS-434HU/HC

SERVICE MANUAL

KENWOOD

© 2002-6 PRINTED IN JAPAN
B51-7962-00 (N) 1462

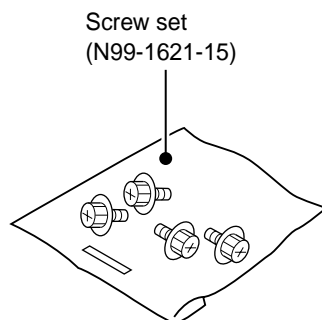
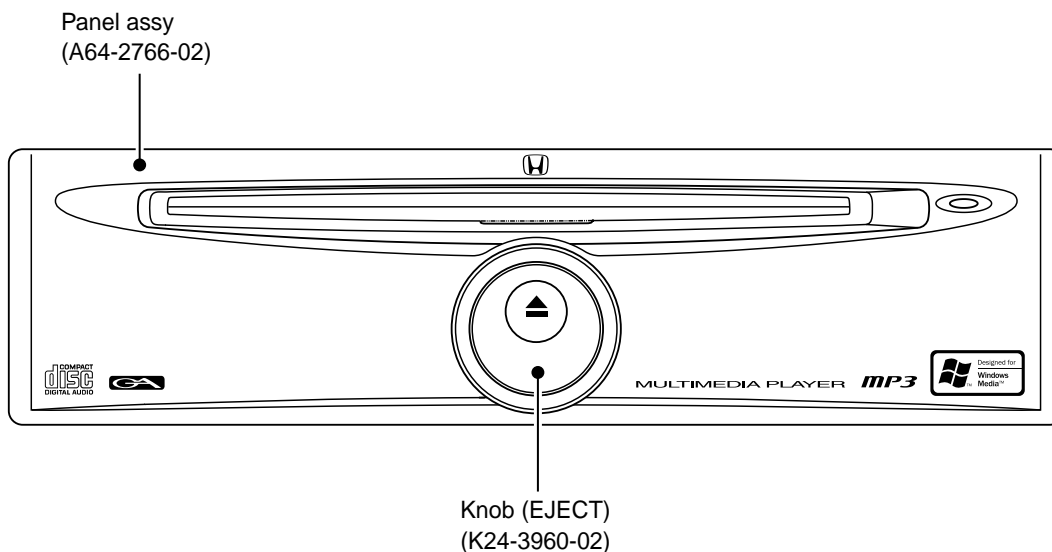
HONDA GENUINE ACCESSORIES

CD mechanism information is not in this
service manual.

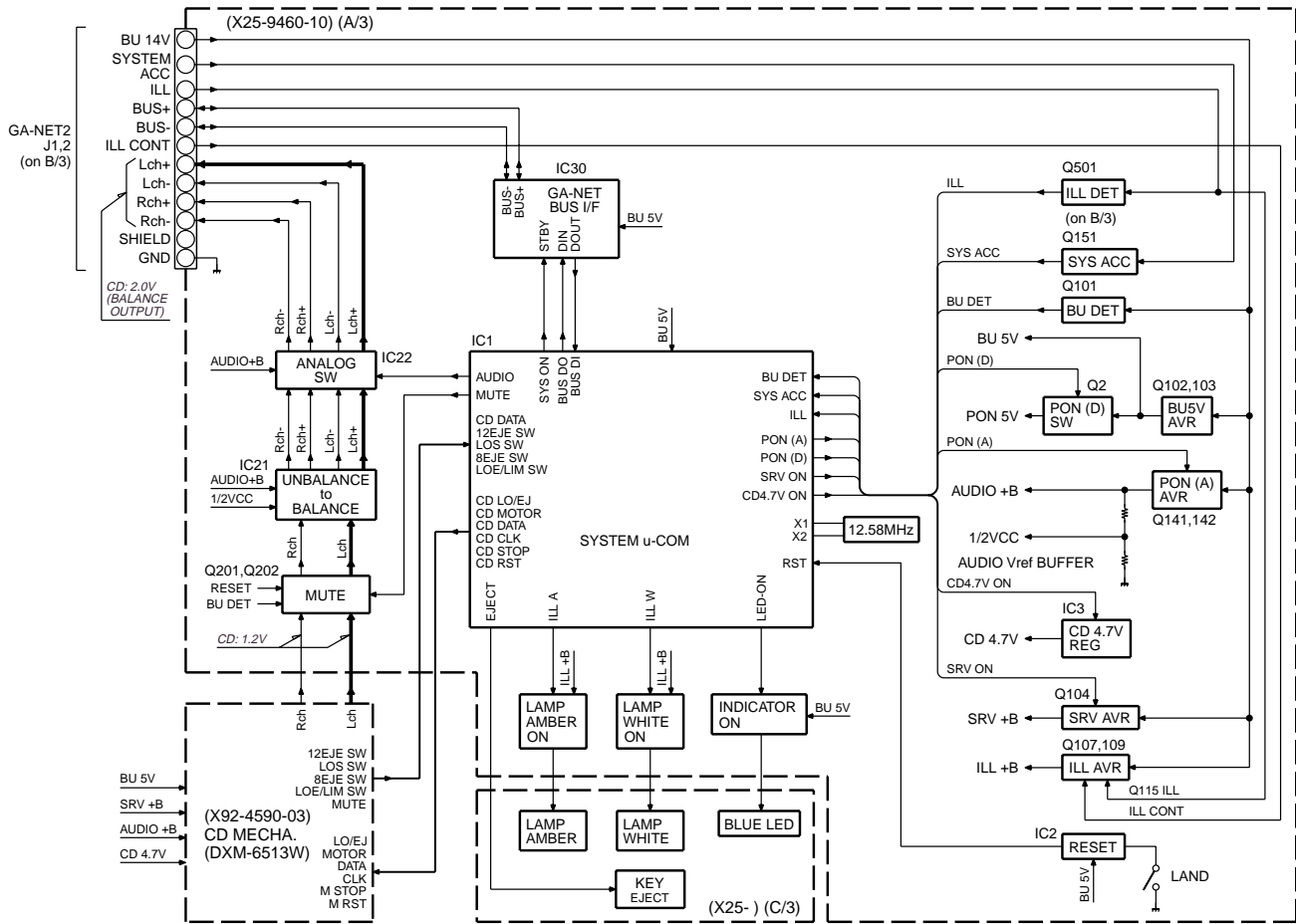
Please, refer to service manual X92-4590-03
(B51-7933-00).

MODEL	PARTS No.	DESTINATION
CS-434HU	08A06-4E1-2000	U.S.A. (HONDA)
CS-434HC	08A06-4E3-2000	CANADA (HONDA)

Head unit connection code for servicing	E30-4238-05
---	-------------



BLOCK DIAGRAM



COMPONENTS DESCRIPTION

Ref.No	Element/Function	Operation/Condition
IC1	Systemtem u-com	Systemtem control
IC2	Hard reset	BU5V voltage detection
IC3	Switching regulator	Power supply for CD4.7V
IC21	OP amplifier	Lch&Rch unbalance/ balance conversion
IC22	Analog SW	Audio input/output switching
IC30	BUS I/F	BUS Interface
Q2	PON(D) control	Digital system 5V power supply PON (D) outputs by ON
Q4	Disk indicator control	Switch on a LED light by ON
Q6	IC22 control	An audio output is not carried out by ON.
Q101	BU detection	At the time of the detection by ON
Q102	BU5V AVR	BU5V AVR
Q103	BU5V AVR	BU5V AVR
Q104	SERVO +B AVR	SERVO +B AVR
Q105	SERVO +B AVR control	Outputs by ON.

Ref.No	Element/Function	Operation/Condition
Q106	IC3 control	Switching-stops by ON.
Q107	AVR for illumi	AVR for illumi
Q108	Illumi control	luminosity-adjusts by the pulse.
Q109	AVR for illumi	AVR for illumi
Q110	Power supply for amber	Power supply for amber
Q111	Power supply for white	Power supply for white
Q112	Illumi switching control (amber)	Switching by ON
Q113	Illumi switching control (white)	Switching by ON
Q114	Dimmer control for indicators	Dimmer by ON
Q115	AVR control for illumi	Output by ON
Q141	PON(A) AVR	Analog system 8V PON(A) AVR
Q142	PON(A) AVR	Analog system 8V PON(A) AVR
Q143	PON(A) AVR control	Output by ON
Q151	System ACC	System ACC:ON by ON
Q201	audio line mute	Lch mute ON by ON
Q202	audio line mute	Rch mute ON by ON
Q203	Q201 aud Q202 control	Mute ON by ON
Q501	Small detection	Detection by ON

MICROCOMPUTER'S TERMINAL DESCRIPTION

● Microcomputer : uPD703034AYGF-M01-3BA (IC1 : X25)

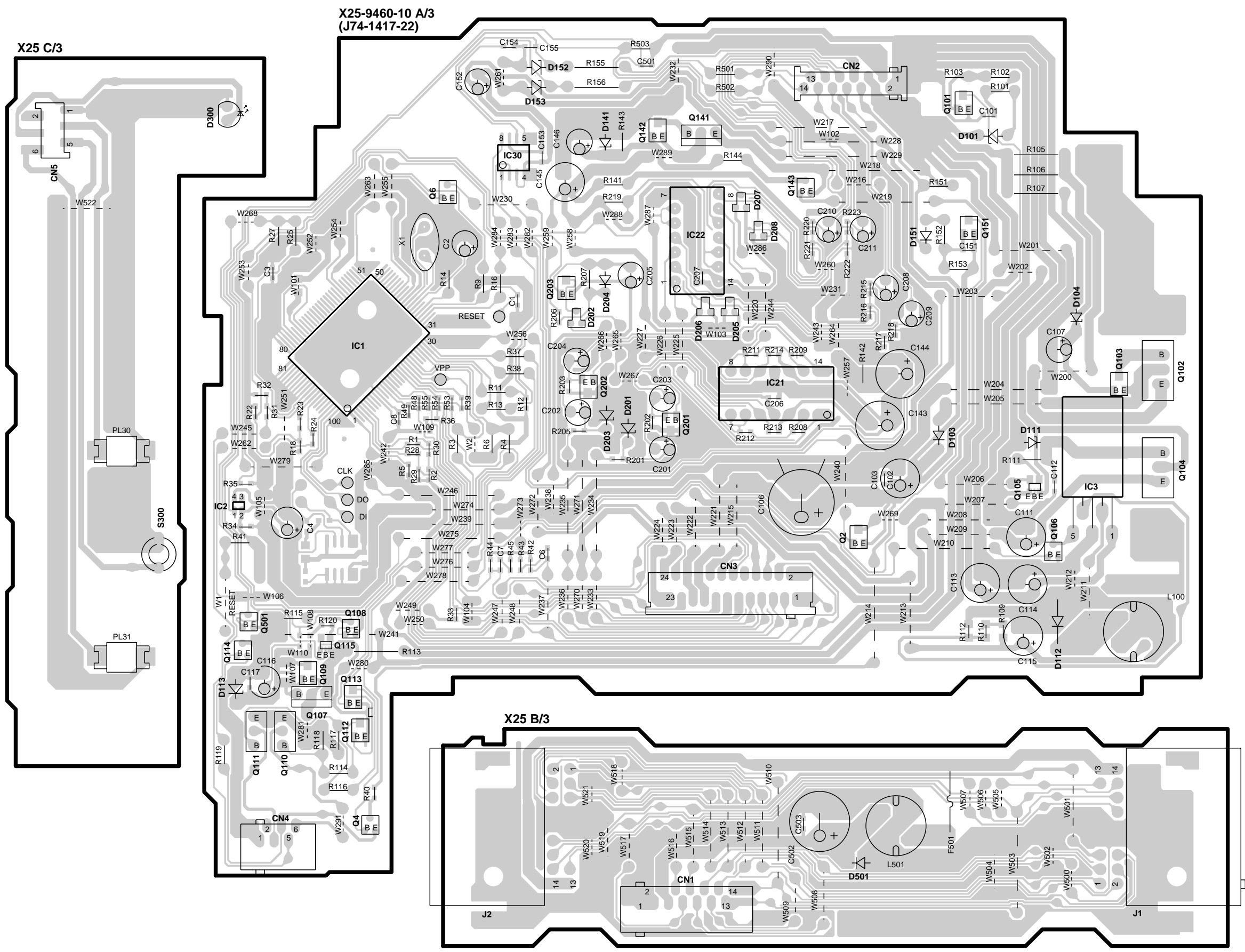
Pin	Pin name	I/O	Description	Processing Operation
1	CD4.7V	O	SW for CD4.7V	CD4.7V ON "L" CD4.7V OFF "H" CD mechanism starting "L"
2	NC	O	Not used	
3	CD DATA	I/O	CD data	For CD mechanism communication
4	CD MOTOR	O	SW for CD motor driver	Motor ON "H" Motor OFF "L" Motor operation "H"
5	CD CLK	O	CD clock	For CD mechanism communication
6~8	NC	O	Not used	
9	EVDD	-	5V potential	
10	EVSS	-	GND potential	
11	NC	O	Not used	
12	CD STOP	O	CD stop	Usual "H" Stop "L" CD mechanism starting "H"
13	CD RST	O	CD reset	Usual "H" Reset "L" Always "H"
14	12EJE SW	I	CD S2	Completion of ejection "H" 12cm DISC "L" 8cm DISC "H"
15~17	NC	O	Not used	
18	LOS SW	I	CD S1	Load Start "L" With no DISC "H" Those with DISC "L"
19	8EJE SW	I	CD S4	Completion of ejection "H"
20	LOE/LIM SW	I	CD S3	DISC chucking "H"
21	IC/Vpp	-	Write-in voltage	
22	CD LO/EJ	I/O	CD loading / ejection control	Usual Hi-Z Eject "H" Loading "L"
23	CD MUTE	I	CD mute request	Mute ON "L" Mute OFF "H"
24,25	NC	O	Not used	
26	BUS DI	I	IEBUS data input	Completion of GA-NET
27	BUS DO	O	IEBUS data output	Completion of GA-NET
28	ILL W	O	Illumi Control WHITE	Illumi ON "H" (AMBER "L") Illumi OFF "L" When it cannot decode, it blinks by 2Hz.
29	ILL A	O	Illumi Control AMBER	Illumi ON "H"(WHITE "L") Illumi OFF "L" When it cannot decode, it blinks by 2Hz.
30	LED IND	O	CD indicator control	Indicator ON "H" CD loading~CD chucking~CD eject "H"

CS-434HU/HC

MICROCOMPUTER'S TERMINAL DESCRIPTION

Pin	Pin name	I/O	Description	Processing Operation
31,32	NC	O	Not used	
33	SYS ON	O	System control	System ACC ON "H" System ACC OFF "L" System ACC ON "H"
34	RESET	I	System reset input	Reset "L" Reset voltage: 4.1V
35	XT1	I	Not used	
36	XT2	O	Not used	
37	REGC	I		
38	X2	-	Main system clock oscillation terminal	12.582MHz
39	X1	I	Main system clock oscillation terminal	12.582MHz
40	VSS	-	GND potential	
41	VDD	-	5V potential	
42	NC	O	Not used	
43	PON D	O	Power ON (digital)	System ACC ON "L" System ACC OFF "H" When a surrounding power supply "H"
44~50	NC	O	Not used	
51	AUDIO	O	Audio output switching	Audio output "L" Audio not output "H"
52~57	NC	O	Not used	
58	BVDD	-	5V potential	
59	BVSS	-	GND	
60~72	NC	O	Not used	
73	REF CON	O	A/D port standard voltage output	System ACC ON "H" Others "L" Always "L"
74	AVDD	-	5V potential	
75	AVSS	-	GND	
76	Avref	I	A/D port standard voltage input	
77~89	NC	I	Not used	
90	ILL DET	I	Illumi detection from H/U	Illumi ON "L" Illumi OFF "H"
91	DISC EJ	I	DISC eject request	EJECT "L"
92	SYS ACC	I	ACC detection from H/U	ACC ON "H" ACC OFF "L"
93	BU DET	I	BU detection	BU ON "L" BU OFF "H"
94~96	NC	O	Not used	
97	SDA0	O	EEPROM DATA	For EEPROM communication
98	NC	O	Not used	
99	SCK0	O	EEPROM CLK	For EEPROM communication
100	MUTE	O	Audio mute output	Mute output "L" Mute not output "H"

PC BOARD (FOIL SIDE VIEW)



X25-9460-10 A/3
(J74-1417-22)

X25 C/3

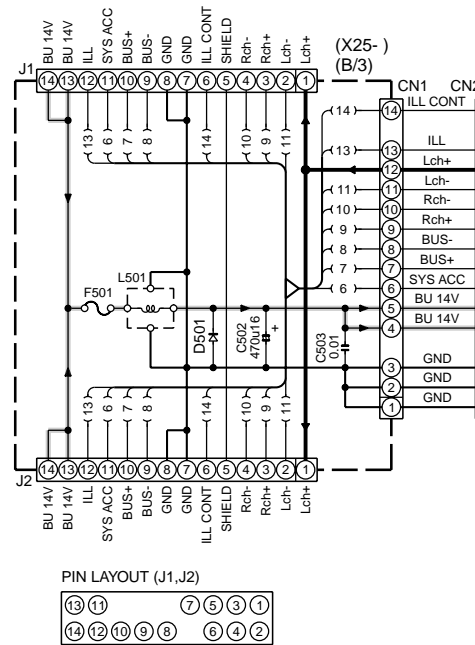
X25 B/3

X25-9460-10

IC	Q	Address
1		3D
2		4C
3		4H
21		4F
22		3F
30		2E
	2	5G
	4	6D
	6	2D
101		2H
102		4I
103		4I
104		4I
105		4H
106		5H
107		6C
108		5D
109		5C
110		6C
111		6C
112		6D
113		5D
114		5C
115		5D
141		2F
142		2F
143		2G
151		3H
201		4F
202		4E
203		3E
501		5C

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

(X25-9460-10) (A/3)



- IC1 : 703034AYGF-M01
- IC2 : S-80841ANNP
- IC3 : SI-8033JF-1103
- IC21 : NJM2060D
- IC22 : BU4066BC
- IC30 : HA12187FP

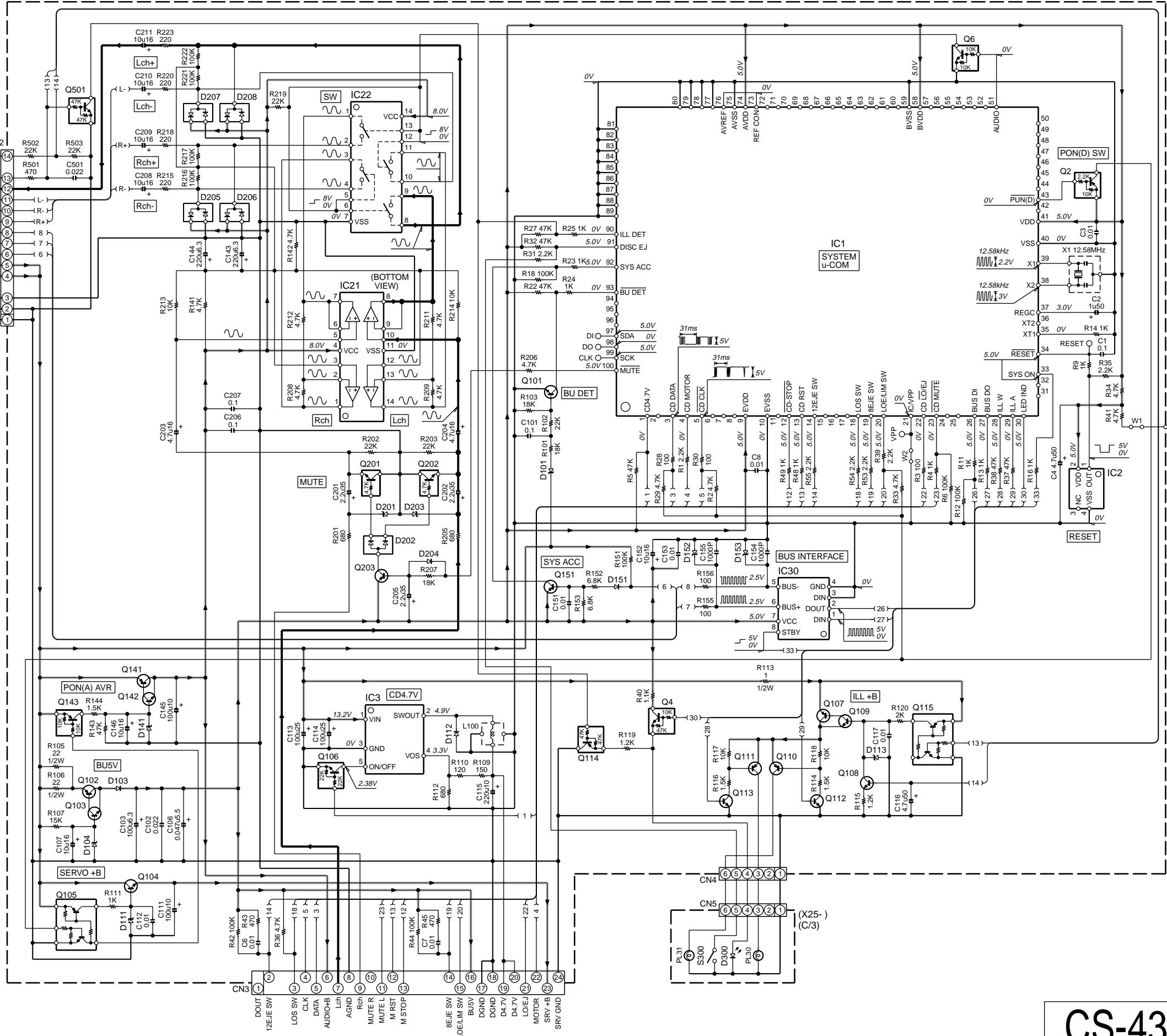
- D101,201,203 : MA4068(N)-M
- D103 : 1SR139-400
- D104 : HZS7A1L
- D111 : HZS9A1L
- D112 : AK04
- D113 : MA4130-L
- D141 : HZS9B1L
- D151,204 : 1SS133
- D152,153 : MA4062-L
- D202 : DAP202U
- D205-208 : DA204U
- D300 : B30-1661-05
- D501 : AM01Z

- Q2 : DTB123YK
- Q4 : DTC114YUA
- Q6 : DTC114EUA
- Q101,103,109,112,113,142 : 2SC3052
- Q102 : 2SA2057
- Q104 : 2SD2375
- Q105,115 : UMC2N
- Q106 : DTC124EUA
- Q107,110,111,141 : 2SB1443
- Q108 : 2SC4081(S)
- Q114 : DTA144EUA
- Q143 : DTA114EUA
- Q151,203 : 2SA1530A
- Q201,202 : DTC343TK
- Q501 : DTC144EUA

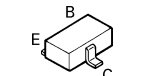
CAUTION : For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

⚠ 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.

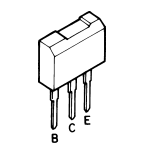
- DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



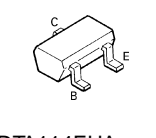
- DTA144EUA
- DTB123YK
- DTC343TK
- UN5111
- UN5211
- UN5213
- UN5214



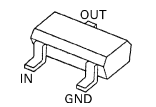
2SB1443



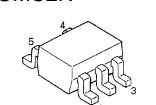
2SC4081



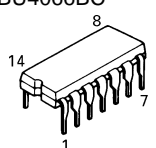
- DTA114EUA
- DTC114EUA
- DTC124EUA
- DTC144EUA



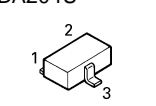
UMC2N



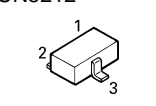
BU4066BC



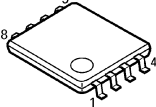
- MA142WA
- UN5212



HA12187FP



- DAP202U
- DA204U

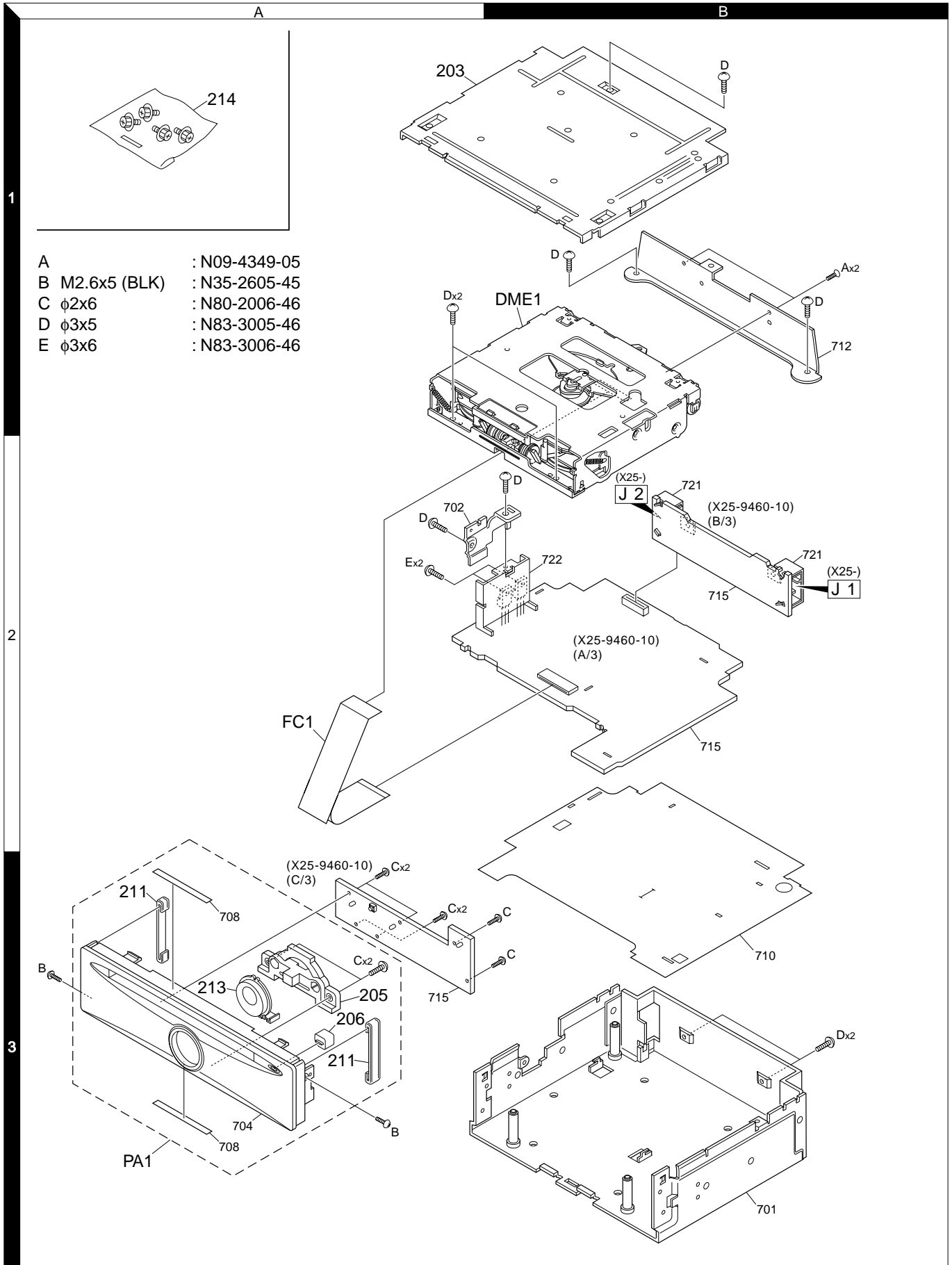


CS-434HU/HC

to CD MECHA
X92-4590-03
(DXM-6513W)

CS-434HU/HC
KENWOOD

EXPLODED VIEW



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

PARTS LIST

* New parts

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

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

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

Ref. No.	Ad	New	Parts No.	Description	Destination	Ref. No.	Ad	New	Parts No.	Description	Destination
CS-434HU/HC											
203	1A		A52-0752-12	TOP PLATE		C206,207			CK73GB1C104K	CHIP C 0.10UF K	
PA1	3A	*	A64-2766-02	PANEL ASSY		C208-211			C90-2597-05	ELECTRO 10UF 16WV	
-		*	B64-2333-00	INSTRUCTION MANUAL	K	C501			CK73GB1E223K	CHIP C 0.022UF K	
-		*	B64-2341-00	INSTRUCTION MANUAL	K2	C502			CE04DW1C471M	ELECTRO 470UF 16WV	
205	3A	*	B19-2183-03	LIGHTING BOARD		C503			CK73GB1H103K	CHIP C 0.010UF K	
206	3A	*	B19-2184-03	LIGHTING BOARD		CN1	*		E40-9730-15	PIN ASSY	
FC1	2A	*	E39-0499-05	FLAT CABLE		CN2	*		E40-9731-05	SOCKET FOR PIN ASSY	
211	3A	*	G11-1856-04	CUSHION		CN3	*		E41-0168-05	FLAT CABLE CONNECTOR	
-		*	H10-4672-52	POLYSTYRENE FOAMED FIXTURE	△	CN4	*		E41-0295-05	PIN ASSY	
-		*	H13-2030-04	CARTON BOARD		CN5	*		E41-0296-05	SOCKET FOR PIN ASSY	
-		*	H25-0337-04	PROTECTION BAG (180X300X0.03)		J1,2			E58-0840-05	RECTANGULAR RECEPTACLE	
-		*	H25-0338-04	PROTECTION BAG (250X350X0.03)		F501			F53-0133-05	FUSE	
-		*	H54-2582-03	ITEM CARTON CASE	K	L100			L33-1853-05	CHOCOIL	
-		*	H54-2587-03	ITEM CARTON CASE	K2	L501			L33-1020-05	CHOCOIL	
213	3A	*	K24-3960-02	KNOB (EJECT)		X1	*		L78-0869-05	RESONATOR (12.58MHZ)	
214	1A		N99-1621-15	SCREW SET		E	2A		N83-3006-46	PAN HEAD TAPTITE SCREW	
A	1B		N09-4349-05	TAPTITE SCREW		R1			RK73GB2A222J	CHIP R 2.2K J 1/10W	
B	3A		N35-2605-45	BINDING HEAD MACHINE SCREW		R2			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C	3B		N80-2006-46	PAN HEAD TAPTITE SCREW		R3			RD14BB2C101J	RD 100 J 1/6W	
D	1B		N83-3005-46	PAN HEAD TAPTITE SCREW		R4			RD14BB2C102J	RD 1.0K J 1/6W	
DME1	1B		X92-4590-03	MECHANISM ASSY		R5			RK73GB2A473J	CHIP R 47K J 1/10W	
ELECTRIC UNIT (X25-9460-10)											
D300		*	B30-1661-05	LED (BLUE)		R6			RD14BB2C104J	RD 100K J 1/6W	
PL30		*	B30-1659-05	LAMP (WHITE)		R9			RD14BB2C102J	RD 1.0K J 1/6W	
PL31		*	B30-1660-05	LAMP (AMBER)		R11			RD14BB2C102J	RD 1.0K J 1/6W	
C1			CK73GB1H104K	CHIP C 0.10UF K		R12			RK73GB2A104J	CHIP R 100K J 1/10W	
C2			C90-2608-05	ELECTRO 1.0UF 50WV		R13,14			RD14BB2C102J	RD 1.0K J 1/6W	
C3			CK73GB1H103K	CHIP C 0.010UF K		R16			RD14BB2C102J	RD 1.0K J 1/6W	
C4			CE04DW1H4R7M	ELECTRO 4.7UF 50WV		R18			RK73GB2A104J	CHIP R 100K J 1/10W	
C6-8			CK73GB1H103K	CHIP C 0.010UF K		R22			RK73GB2A473J	CHIP R 47K J 1/10W	
C101			CK73GB1C104K	CHIP C 0.10UF K		R23,24			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C102			CK73GB1H223K	CHIP C 0.022UF K		R25			RD14BB2C102J	RD 1.0K J 1/6W	
C103			CE04CW0J101M	ELECTRO 100UF 6.3WV		R27			RD14BB2C473J	RD 47K J 1/6W	
C106			C90-2945-05	ELECTRO 0.047F 5.5WV		R28			RK73GB2A101J	CHIP R 100 J 1/10W	
C107			C90-2597-05	ELECTRO 10UF 16WV		R29			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C111			CE04CW1A101M	ELECTRO 100UF 10WV		R30			RK73GB2A101J	CHIP R 100 J 1/10W	
C112			CK73GB1H103K	CHIP C 0.010UF K		R31			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C113,114			C90-2963-05	ELECTRO 100UF 25WV		R32			RK73GB2A473J	CHIP R 47K J 1/10W	
C115			C90-2965-05	ELECTRO 220UF 10WV		R33,34			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C116			CE04DW1H4R7M	ELECTRO 4.7UF 50WV		R35			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C143,144			CE04CW0J221M	ELECTRO 220UF 6.3WV		R36			RK73GB2A472J	CHIP R 4.7K J 1/10W	
C145			CE04CW1A101M	ELECTRO 100UF 10WV		R37,38			RD14BB2C473J	RD 47K J 1/6W	
C146			C90-2597-05	ELECTRO 10UF 16WV		R39			RK73GB2A222J	CHIP R 2.2K J 1/10W	
C151			CK73GB1H103K	CHIP C 0.010UF K		R40			RK73GB2A102J	CHIP R 1.0K J 1/10W	
C152			C90-2597-05	ELECTRO 10UF 16WV		R41			RD14BB2C472J	RD 4.7K J 1/6W	
C153			CK73GB1H103K	CHIP C 0.010UF K		R42			RK73GB2A104J	CHIP R 100K J 1/10W	
C154,155			CK73GB1H102K	CHIP C 1000PF K		R43			RK73GB2A471J	CHIP R 470 J 1/10W	
C201,202			C90-2600-05	ELECTRO 2.2UF 35WV		R44			RK73GB2A104J	CHIP R 100K J 1/10W	
C203-205			C90-2595-05	ELECTRO 4.7UF 16WV		R45			RK73GB2A471J	CHIP R 470 J 1/10W	
						R48,49			RK73GB2A102J	CHIP R 1.0K J 1/10W	
						R53-55			RK73GB2A222J	CHIP R 2.2K J 1/10W	
						R101			RD14BB2C183J	RD 18K J 1/6W	
						R102			RD14BB2C223J	RD 22K J 1/6W	

K : CS-434HU K2 : CS-434HC

△ Indicates safety critical components.

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.

ELECTRIC UNIT (X25-9460-10)

Ref. No.	Add	New	Parts No.	Description	Destination	Ref. No.	Add	New	Parts No.	Description	Destination
R103			RD14BB2C183J	RD 18K J 1/6W		D501			AM01Z	DIODE	
R105,106			RD14DB2H220J	SMALL-RD 22 J 1/2W		D501			DSM1SD2	DIODE	
R107			RD14BB2E153J	RD 15K J 1/4W		IC1		*	703034AYGF-M01	MI-COM IC	
R109			R92-3018-05	CHIP R 150 D 1/10W		IC2			S-80841ANNP	MOS-IC	
R110			R92-3017-05	CHIP R 120 D 1/10W		IC3		*	SI-8033JF-1103	MOS-IC	
R111			RD14BB2C102J	RD 1.0K J 1/6W		IC21			NJM2060D	ANALOGUE IC	
R112			R92-3021-05	CHIP R 680 D 1/10W		IC22			BU4066BC	MOS-IC	
R113			RD14DB2H1R0J	SMALL-RD 1.0 J 1/2W		IC30			HA12187FP	ANALOGUE IC	
R114-116			RD14BB2C152J	RD 1.5K J 1/6W		Q2			DTB123YK	DIGITAL TRANSISTOR	
R117,118			RD14BB2C103J	RD 10K J 1/6W		Q4			DTC114YUA	DIGITAL TRANSISTOR	
R119			RD14BB2C122J	RD 1.2K J 1/6W		Q4			UN5214	DIGITAL TRANSISTOR	
R120			RK73GB2A102J	CHIP R 1.0K J 1/10W		Q6			DTC114EUA	DIGITAL TRANSISTOR	
R141,142			RD14BB2C472J	RD 4.7K J 1/6W		Q6			UN5211	DIGITAL TRANSISTOR	
R143			RD14BB2C473J	RD 47K J 1/6W		Q101			2SC3052	TRANSISTOR	
R144			RD14BB2C152J	RD 1.5K J 1/6W		Q102			2SA2057	TRANSISTOR	
R151			RD14BB2C104J	RD 100K J 1/6W		Q103			2SC3052	TRANSISTOR	
R152,153			RD14BB2C682J	RD 6.8K J 1/6W		Q104			2SD2375	TRANSISTOR	
R155,156			RD14BB2E101J	RD 100 J 1/4W		Q105			UMC2N	TRANSISTOR	
R201			RK73GB2A681J	CHIP R 680 J 1/10W		Q106			DTC124EUA	DIGITAL TRANSISTOR	
R202,203			RK73GB2A223J	CHIP R 22K J 1/10W		Q106			UN5212	DIGITAL TRANSISTOR	
R205			RK73GB2A681J	CHIP R 680 J 1/10W		Q107			2SB1443	TRANSISTOR	
R206,207			RD14BB2C223J	RD 22K J 1/6W		Q108			2SC4081(S)	TRANSISTOR	
R208,209			RK73GB2A472J	CHIP R 4.7K J 1/10W		Q109			2SC3052	TRANSISTOR	
R211,212			RK73GB2A472J	CHIP R 4.7K J 1/10W		Q110,111			2SB1443	TRANSISTOR	
R213,214			RK73GB2A103J	CHIP R 10K J 1/10W		Q112,113			2SC3052	TRANSISTOR	
R215			RK73GB2A221J	CHIP R 220 J 1/10W		Q114			DTA144EUA	DIGITAL TRANSISTOR	
R216,217			RK73GB2A104J	CHIP R 100K J 1/10W		Q114			UN5113	DIGITAL TRANSISTOR	
R218			RK73GB2A221J	CHIP R 220 J 1/10W		Q115			UMC2N	TRANSISTOR	
R219			RD14BB2C223J	RD 22K J 1/6W		Q141			2SB1443	TRANSISTOR	
R220			RK73GB2A221J	CHIP R 220 J 1/10W		Q142			2SC3052	TRANSISTOR	
R221,222			RK73GB2A104J	CHIP R 100K J 1/10W		Q143			DTA114EUA	DIGITAL TRANSISTOR	
R223			RK73GB2A221J	CHIP R 220 J 1/10W		Q143			UN5111	DIGITAL TRANSISTOR	
R501			RD14BB2C471J	RD 470 J 1/6W		Q151			2SA1530A	TRANSISTOR	
R502,503			RD14BB2C472J	RD 4.7K J 1/6W		Q201,202			DTC343TK	DIGITAL TRANSISTOR	
W101			R92-2052-05	CHIP R 0 OHM J 1/10W		Q203			2SA1530A	TRANSISTOR	
W102-107			R92-2053-05	CHIP R 0 J 1/8W		Q501			DTC144EUA	DIGITAL TRANSISTOR	
W108			R92-2052-05	CHIP R 0 OHM J 1/10W		Q501			UN5213	DIGITAL TRANSISTOR	
S300			S70-0883-05	TACT SWITCH							
D101			MA4068(N)-M	ZENER DIODE							
D103			AM01Z	DIODE							
D103			1SR139-400	DIODE							
D104			HZS7A1L	ZENER DIODE							
D111			HZS9A1L	ZENER DIODE							
D112			AK04	DIODE							
D113			MA4130-H	ZENER DIODE							
D141			HZS9B1L	ZENER DIODE							
D151			1SS133	DIODE							
D152,153			MA4062-L	ZENER DIODE							
D201			MA4068(N)-M	ZENER DIODE							
D202			DAP202U	DIODE							
D202			MA142WA	DIODE							
D203			MA4068(N)-M	ZENER DIODE							
D205-208			DA204U	DIODE							

CS-434HU/HC

SPECIFICATIONS

Player Section

Laser Diode	GaAIAs ($\lambda=780\text{nm}$)
Digital Filter (D/A)	8 Times Over Sampling
D/A Converter	1bit
Spindle Speed	1000~400rpm (CLV 2 times)
Wow & Flutter	Below Measurable Limit
Frequency Response ($\pm 1\text{dB}$)	20Hz~20kHz
Total Harmonic Distortion (1kHz)	0.01%
Signal to Noise Ratio (1kHz)	90dB
Dynamic Range	90dB
Stereo Separation	80dB
MP3 Decode	Compliant with MPEG-1.0/2.0/2.5 Audio Layer-3
WMA Decode	Compliant with Windows Media™ Audio

General

Supply Voltage	13.2V DC (negative earth)
Maximum Current	1.5A (operating) 1.5mA (standby)
Dimensions (width x length x depth)	180 x 50 x 155 mm 7-1/16 x 2 x 6-1/8 inch
Weight	2.31 lbs (1.05kg)

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

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo 150-8501 Japan

KENWOOD SERVICE CORPORATION
P.O. BOX 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O. Box 55-2791 Paitilla, Plaza Credicorp Bank Panama,
Piso 9, Oficina 901, Calle 50, Panama, Rep. de Panama

KENWOOD ELECTRONICS BRASIL LTDA.
Alameda Ministro Rocha Azevedo No. 456,
Edifício Jaú, 10o Andar, Cerqueira César, Cep 0140-001,
São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED
Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker-Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.
13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.
Leuvensesteenweg 248 J, 1800 Vilvoorde, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N. 001 499 074)
16 Giffnock Avenue, Centrecourt Estate, North Ryde,
N.S.W. 2113, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T.,
Hong Kong

KENWOOD ELECTRONICS GULF FZE
P.O. Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.
2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE. LTD.
1 Genting Lane, #07-00, Kenwood Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD
#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan,
Malaysia