

● CD Player Service Precautions

1. For pickup unit(CXX1285) handling, please refer to "Disassembly"(see page 43).
During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
3. Please checking the grating after changing the service pickup unit(see page 38).

1. SAFETY INFORMATION

CAUTION

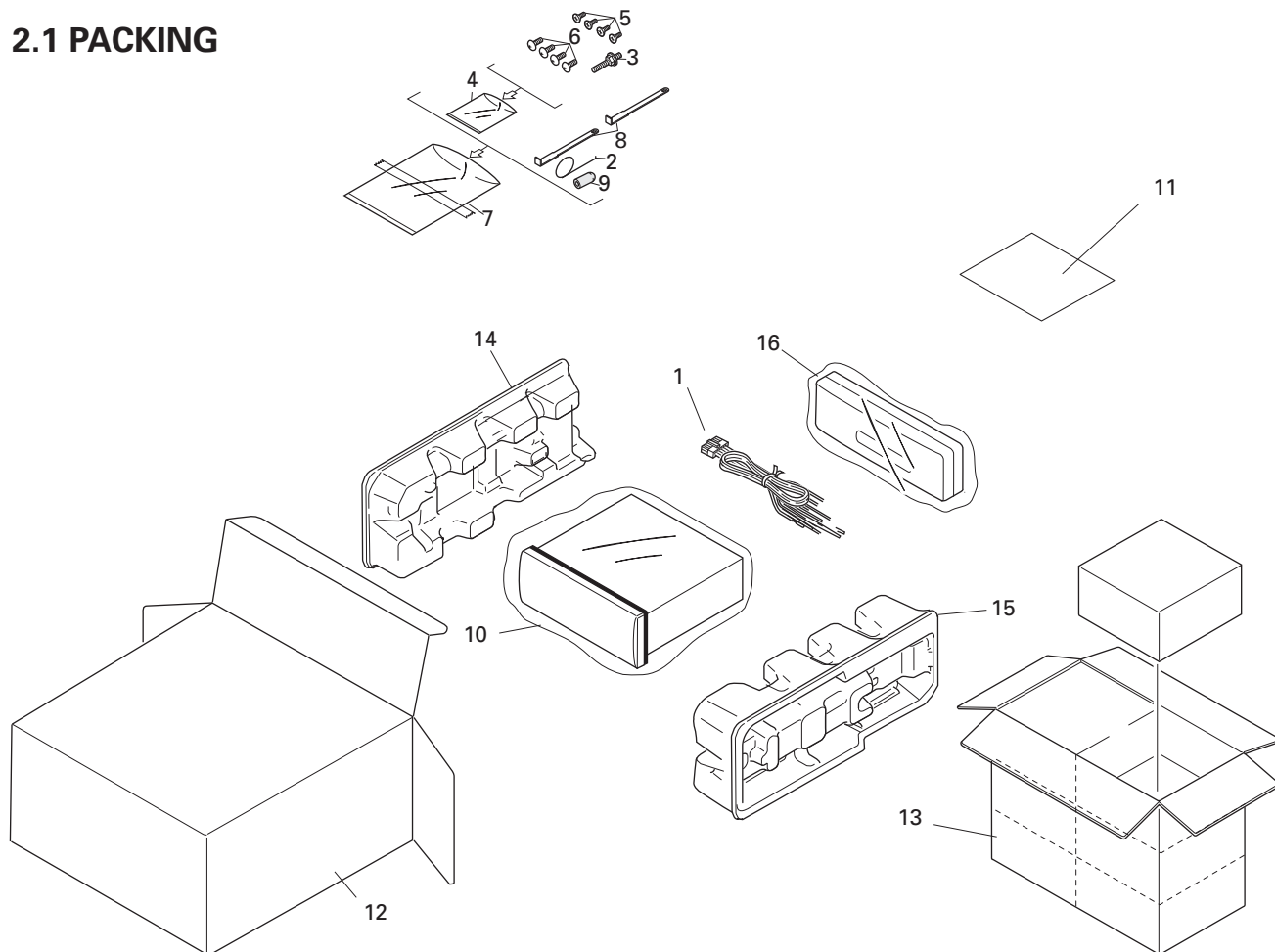
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



NOTE:

- Parts marked by “*” are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

(1) PACKING SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
	1 Cord Assy	CDE6468	* 11-1	Warranty Card	See Contrast table(2)
	2 Spring	CBH1650	11-2	Owner's Manual	See Contrast table(2)
	3 Screw	CBA1002	11-3	Installation Manual	See Contrast table(2)
*	4 Polyethylene Bag	CEG-127	* 11-4	Card	See Contrast table(2)
	5 Screw	CRZ50P090FMC	12	Carton	See Contrast table(2)
	6 Screw	TRZ50P080FMC	13	Contain Box	See Contrast table(2)
*	7 Polyethylene Bag	CEG-158	14	Protector	CHP2346
	8 Handle	CNC5395	15	Protector	CHP2347
	9 Bush	CNV3930	16	Case Assy	See Contrast table(2)
	10 Polyethylene Bag	CEG1173			

(2) CONTRAST TABLE

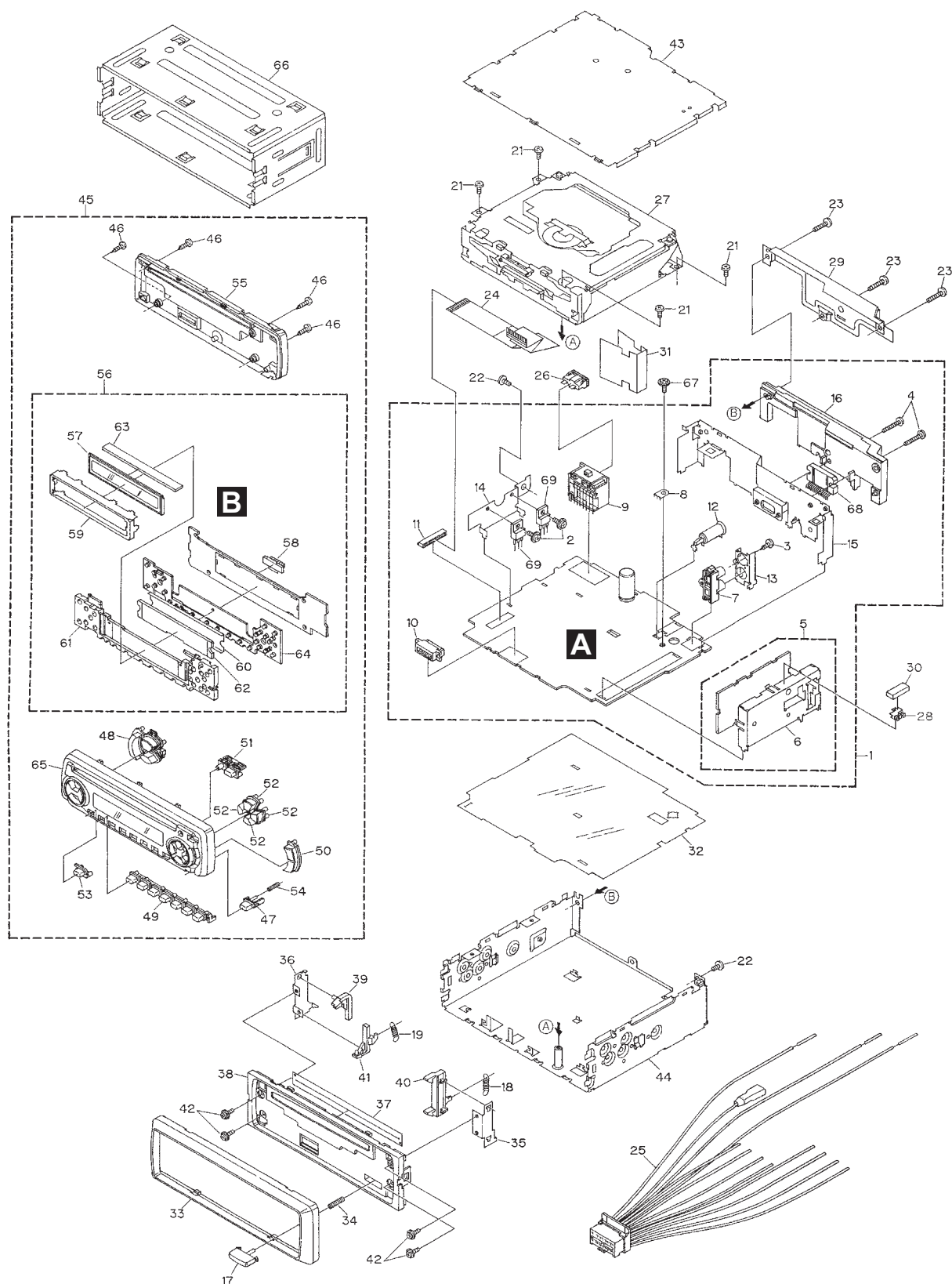
DEH-2300/X1M/UC, DEH-230/X1M/UC and DEH-23/X1M/UC are constructed the same except for the following:

Mark No.	Symbol and Description	Part No.		
		DEH-2300/X1M/UC	DEH-230/X1M/UC	DEH-23/X1M/UC
* 11-1	Warranty Card	Not used	CRY1070	Not used
11-2	Owner's Manual	CRD3279	CRD3357	CRD3279
11-3	Installation Manual	CRD3280	CRD3360	CRD3280
* 11-4	Card	ARY1048	Not used	ARY1048
12	Carton	CHG4154	CHG4275	CHG4155
13	Contain Box	CHL4154	CHL4275	CHL4155
16	Case Assy	Not used	CXB3520	Not used

● Owner's Manual, Installation Manual

Model	Part No.	Language
DEH-2300/X1M/UC	CRD3279	English, French, Spanish
DEH-23/X1M/UC	CRD3280	
DEH-230/X1M/UC	CRD3357	
	CRD3360	

2.2 EXTERIOR



(1) EXTERIOR SECTION PARTS LIST

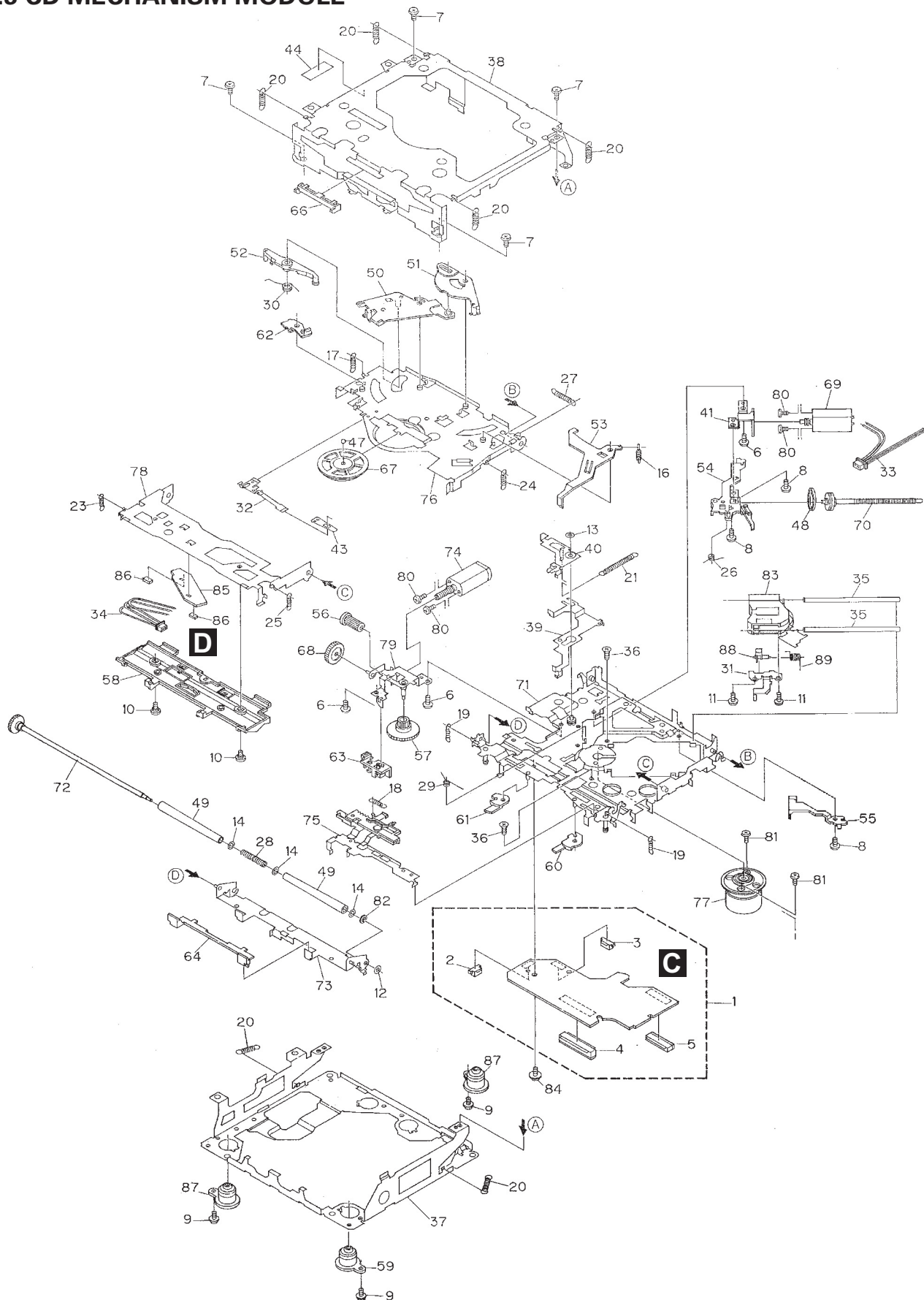
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Tuner Amp Unit	CWM7292	36	Holder	CNC8042
2	Screw	ASZ26P080FMC	37	Cover	CNM6276
3	Screw	BPZ26P080FMC	38	Panel	CNS5355
4	Screw	BSZ26P160FMC	39	Arm	CNV4692
5	FM/AM Tuner Unit	CWE1563	40	Arm	CNV4728
6	Holder	CNC8815	41	Arm	CNV5576
7	Pin Jack(CN301)	CKB1041	42	Screw	IMS20P030FZK
8	Terminal(CN403)	CKF1059	43	Case Unit	CXB4033
9	Plug(CN901)	CKM1330	44	Chassis Unit	CXB4625
10	Connector(CN601)	CKS3581	45	Detach Grille Assy	See Contrast table(2)
11	Connector(CN605)	CKS3838	46	Screw	BPZ20P100FZK
12	Antenna Jack(CN402)	CKX1056	47	Button(DETACH)	CAC5789
13	Holder	CNC8041	48	Button(+/-, EQ, LD)	CAC6821
14	Holder	CNC8043	49	Button(1-6, CLK)	CAC6822
15	Holder	CNC9128	50	Button(A, B)	CAC6823
16	Heat Sink	CNR1589	51	Button(EJECT/BSM)	CAC6824
17	Button	CAC4836	52	Button(CROSS)	CAC6825
18	Spring	CBH1835	53	Button(SOURCE)	CAC6851
19	Spring	CBH2208	54	Spring	CBH2210
20			55	Cover	CNS6114
21	Screw	BSZ26P060FMC	56	Keyboard Unit	See Contrast table(2)
22	Screw	BSZ30P060FMC	57	LCD	CAW1606
23	Screw	BSZ30P120FMC	58	Connector(CN1801)	CKS3580
24	Cable	CDE6160	59	Holder	CNC9078
25	Cord Assy	CDE6468	60	Sheet	CNM7057
26	Fuse(10A)	CEK1136	61	Lighting Conductor	CNV6475
27	CD Mechanism Module(S8.1)	CXK5203	62	Lighting Conductor	CNV6476
28	Holder	CNC5704	63	Rubber	CNV6477
29	Cover	CNC9127	64	Rubber	CNV6478
30	Cushion	CNM5210	65	Grille Unit	See Contrast table(2)
31	Insulator	CNM6224	66	Holder Unit	CXB6681
32	Insulator	CNM6386	67	Screw	ISS26P055FUC
33	Panel	CNS6344	68	IC(IC302)	PAL006A
34	Spring	CBH2367	69	Transistor(Q904, 981)	2SD2396
35	Bracket	CNC6791			

(2) CONTRAST TABLE

DEH-2300/X1M/UC, DEH-230/X1M/UC and DEH-23/X1M/UC are constructed the same except for the following:

Mark No.	Symbol and Description	Part No.		
		DEH-2300/X1M/UC	DEH-230/X1M/UC	DEH-23/X1M/UC
45	Detach Grille Assy	CXB6144	CXB7141	CXB6145
56	Keyboard Unit	CWM7303	CWM7303	CWM7304
65	Grille Unit	CXB7181	CXB7300	CXB7178

2.3 CD MECHANISM MODULE



● CD MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	CWX2411	46		
2	Connector(CN802)	CKS2192	47	Ball	CNR1189
3	Connector(CN801)	CKS2193	48	Belt	CNT1086
4	Connector(CN701)	CKS2773	49	Roller	CNV4509
5	Connector(CN101)	CKS3486	50	Arm	CNV6037
6	Screw	BMZ20P030FMC	51	Arm	CNV5247
7	Screw	BSZ20P040FMC	52	Arm	CNV5248
8	Screw(M2x3)	CBA1077	53	Arm	CNV5249
9	Screw(M2x5)	EBA1028	54	Guide	CNV5254
10	Screw	CBA1243	55	Guide	CNV5255
11	Screw(M2x4)	CBA1362	56	Gear	CNV5257
12	Washer	CBF1037	57	Gear	CNV5256
13	Washer	CBF1038	58	Guide	CNV6272
14	Washer	CBF1060	59	Damper	CNV6174
15			60	Arm	CNV6096
16	Spring	CBH2079	61	Arm	CNV6031
17	Spring	CBH2117	62	Arm	CNV6211
18	Spring	CBH2314	63	Guide	CNV6012
19	Spring	CBH2110	64	Guide	CNV5510
20	Spring	CBH2282	65		
21	Spring	CBH2318	66	Guide	CNV5751
22			67	Clamper	CNV6013
23	Spring	CBH2324	68	Gear	CNV5813
24	Spring	CBH2118	69	Motor Unit(M1)	CXB2190
25	Spring	CBH2161	70	Screw Unit	CXB5892
26	Spring	CBH2163	71	Chassis Unit	CXB4797
27	Spring	CBH2189	72	Gear Unit	CXB4728
28	Spring	CBH2377	73	Arm Unit	CXB5753
29	Spring	CBH2260	74	Motor Unit(M2)	CXB2195
30	Spring	CBH2262	75	Lever Unit	CXB4730
31	Bracket	CNC8568	76	Arm Unit	CXB4731
32	Spring	CBL1369	77	Motor Unit(M3)	CXB2562
33	Connector	CDE5531	78	Arm Unit	CXB4732
34	Connector	CDE5532	79	Bracket Unit	CXB4795
35	Shaft	CLA3894	80	Screw	JFZ20P025FMC
36	Screw(M2.6x6)	CBA1458	81	Screw	JGZ17P025FZK
37	Frame	CNC8565	82	Washer	YE20FUC
38	Frame	CNC8749	83	Pickup Unit(Service)(P8)	CXX1285
39	Lever	CNC9265	84	Screw	IMS26P030FMC
40	Arm	CNC8663	* 85	PCB	CNX2982
41	Bracket	CNC8567	86	Photo-transistor(Q1, 2)	CPT230SX-TU
42			87	Damper	CNV6175
43	Spacer	CNM3315	88	Rack	CNV6014
44	Sheet	CNM6659	89	Spring	CBH2315
45					

5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J, RS1/○○S○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
A Unit Number : CWM7292 Unit Name : Tuner Amp Unit		RESISTORS	
MISCELLANEOUS			
IC 301 IC	PML003AM	R 310	RD1/4PU222J
IC 302 IC	PAL006A	R 311	RD1/4PU222J
IC 601 IC	PE5196A	R 332	RS1/16S221J
IC 602 IC	S-80834ANY	R 333	RS1/16S221J
Q 346 Transistor	RN1610	R 334	RS1/16S221J
Q 350 Transistor	DTA124EK	R 335	RS1/16S221J
Q 351 Transistor	DTC114EK	R 342	RS1/16S681J
Q 353 Transistor	DTA124EK	R 343	RS1/16S681J
Q 411 Transistor	2SC2412K	R 344	RS1/16S223J
Q 650 Transistor	2SA1037K	R 345	RS1/16S223J
Q 901 Transistor	2SC2412K	R 346	RS1/16S0R0J
Q 902 Transistor	2SC2412K	R 351	RS1/16S102J
Q 903 Transistor	2SD1859	R 352	RS1/16S103J
Q 904 Transistor	2SD2396	R 353	RS1/16S103J
Q 905 Transistor	2SB1243	R 354	RS1/16S331J
Q 906 Transistor	DTC114EK	R 360	RD1/4PU153J
Q 920 Transistor	RN46A1	R 411	RS1/16S681J
Q 981 Transistor	2SD2396	R 412	RS1/16S681J
Q 982 Transistor	RN46A1	R 413	RS1/16S681J
D 650 Diode	1SS270	R 414	RS1/16S103J
D 651 Diode	1SS270	R 415	RS1/16S681J
D 652 Diode	1SS270	R 416	RD1/4PU473J
D 653 Diode	1SS270	R 417	RD1/4PU472J
D 654 Diode	1SS270	R 418	RS1/16S473J
D 655 Diode	1SS270	R 419	RS1/16S473J
D 901 Diode	HZS7L(C2)	R 420	RS1/16S473J
D 902 Diode	S5688G	R 421	RS1/16S473J
D 903 Diode	S5688G	R 422	RS1/16S473J
D 904 Diode	HZS7L(A1)	R 423	RS1/16S681J
D 905 Diode	S5688G	R 424	RS1/16S681J
D 906 Diode	HZS6L(B2)	R 425	RS1/16S393J
D 907 Diode	HZS9L(B3)	R 427	RS1/16S222J
D 941 Diode	S5688G	R 428	RS1/16S222J
D 942 Diode	S5688G	R 460	RS1/16S272J
D 981 Diode	HZS9L(B1)	R 461	RS1/16S272J
L 310 Ferri-Inductor	LAU1R0M	R 464	RS1/16S162J
L 401 Ferri-Inductor	LAU4R7K	R 465	RS1/16S162J
L 402 Ferri-Inductor	LAU2R2K	R 468	RS1/16S0R0J
L 403 Inductor	LAU100K	R 469	RS1/16S0R0J
L 610 Ferri-Inductor	LAU101K	R 610	RD1/4PU822J
L 611 Ferri-Inductor	LAU2R2K	R 611	RS1/16S473J
L 650 Ferri-Inductor	LAU2R2K	R 619	RS1/16S0R0J
L 901 Choke Coil 600μH	CTH1221	R 620	RS1/16S223J
X 610 Crystal Resonator 4.194304MHz	CSS1023	R 622	RD1/4PU222J
AR 946 Arrester	DSP-201M-S00B	R 623	RD1/4PU222J
FM/AM Tuner Unit	CWE1563	R 624	RS1/16S473J
		R 625	RS1/16S473J
		R 626	RS1/16S473J
		R 627	RS1/16S473J
		R 628	RD1/4PU222J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 629	RS1/16S473J	C 366	CKSQYB474K16
R 630	RS1/16S822J	C 367	CKSQYB474K16
R 631	RD1/4PU102J	C 368	CKSQYB474K16
R 649	RS1/16S222J	C 369	CKSQYB474K16
R 650	RD1/4PU222J	C 370	CKSQYB474K16
R 651	RD1/4PU222J	C 371	CKSQYB474K16
R 652	RS1/16S472J	C 372	CKSQYB225K10
R 653	RD1/4PU222J	C 373	CKSRYB473K25
R 654	RS1/16S473J	C 390	CKSRYB104K16
R 655	RS1/16S103J	C 391	CCH1368
R 656	RS1/16S103J	C 411	CKSRYB223K25
R 657	RD1/4PU102J	C 412	CKSRYB223K25
R 658	RD1/4PU102J	C 413	CKSRYB102K50
R 660	RS1/16S1R0J	C 414	CEJA220M10
R 681	RD1/4PU681J	C 415	CKSRYB473K16
R 682	RS1/16S102J	C 416	CEAL101M10
R 683	RS1/16S102J	C 417	CKSRYB472K50
R 684	RS1/16S102J	C 419	CCSRCH101J50
R 901	RS1/16S104J	C 420	CCSRCH101J50
R 902	RD1/4PU104J	C 462	CKSRYB183K25
R 903	RD1/4PU103J	C 463	CKSRYB183K25
R 904	RS1/16S473J	C 490	CKSQYB103K50
R 905	RD1/4PU102J	C 499	CKSRYB103K50
R 906	RS1/16S473J	C 612	CEJA4R7M35
R 907	RS1/16S473J	C 613	CKSRYB473K16
R 908	RS1/16S472J	C 614	CCSRCH101J50
R 909	RD1/4PU103J	C 628	CCSRCH150J50
R 910	RS1/16S0R0J	C 629	CCSRCH150J50
R 911	RS1/16S122J	C 630	CKSRYB473K16
R 912	RD1/4PU103J	C 631	CEAL2R2M50
R 913	RS1/16S101J	C 650	CKSRYB104K16
R 914	RD1/4PU152J	C 901	CEJA101M10
R 916	RS1/16S221J	C 902	CKSRYB473K16
R 918	RS1/16S1R0J	C 903	CCH1331
R 944	RD1/4PU152J	C 904	CKSRYB473K16
R 981	RS1/16S472J	C 905	CCH1326
R 982	RS1/16S222J	C 906	CKSRYB103K50
R 983	RD1/4PU221J	C 907	CEJA101M16
R 984	RD1/4PU221J	C 941	CKSRYB473K16
		C 981	CEJA101M10
		C 982	CKSRYB102K50
		C 983	CKSRYB473K16
CAPACITORS		B Unit Number : CWM7303 (DEH-2300/X1M/UC, DEH-230/X1M/UC) Unit Name : Keyboard Unit	
C 310	CKSRYB105K6R3	MISCELLANEOUS	
C 311	CKSRYB104K16	IC 1801	IC
C 313	CKSRYB105K6R3	D 1701	LED
C 314	CKSRYB104K16	D 1702	LED
C 315	CKSRYB102K50	D 1703	LED
		D 1704	LED
C 316	CKSRYB102K50	D 1705	LED
C 330	CEJA470M10	D 1706	LED
C 331	CEJA100M16	D 1707	LED
C 332	CKSRYB104K16	D 1708	LED
C 333	CEJA4R7M35	D 1801	Diode
C 334	CEJA4R7M35	D 1802	Diode
C 336	CKSRYB153K25	D 1811	LED
C 337	CKSRYB153K25	D 1812	LED
C 340	CEAL2R2M50	X 1801	Ceramic Resonator 4.97MHz
C 341	CEJA2R2M50	IL 1801	Lamp 14V 40mA
C 346	CCSRCH100D50	IL 1802	Lamp 14V 40mA
C 347	CCSRCH100D50		LCD
C 348	CCSRCH100D50		
C 349	CCSRCH100D50		
C 350	CEJA330M10		
C 361	CEJA2R2M50		
C 362	CKSQYB225K10		
C 363	CEJA100M16		
C 364	CKSQYB474K16		
C 365	CKSQYB474K16		

====Circuit Symbol and No.==Part Name Part No.

RESISTORS

R	1701	RS1/16S151J
R	1702	RS1/16S181J
R	1703	RS1/16S181J
R	1704	RS1/16S181J
R	1705	RS1/16S181J

R	1706	RS1/16S151J
R	1707	RS1/16S151J
R	1708	RS1/16S151J
R	1709	RS1/16S181J
R	1710	RS1/16S151J

R	1711	RS1/16S181J
R	1712	RS1/16S151J
R	1713	RS1/16S131J
R	1801	RS1/16S222J
R	1802	RS1/16S222J

R	1803	RS1/16S471J
R	1804	RS1/16S471J
R	1805	RS1/16S471J
R	1806	RS1/16S471J

CAPACITORS

C	1801	CKSRYB103K50
C	1811	CKSQYF104Z25
C	1812	CKSQYF104Z25

B Unit Number : CWM7304(DEH-23/X1M/UC)
Unit Name : Keyboard Unit

MISCELLANEOUS

IC	1801	IC	PD6340A
D	1701	LED	SML210DT
D	1702	LED	SML210DT
D	1703	LED	SML210DT
D	1704	LED	SML210DT

D	1705	LED	SML210DT
D	1706	LED	SML210DT
D	1707	LED	SML210DT
D	1708	LED	SML210DT
D	1801	Diode	MA152WK

D	1802	Diode	MA152WA
D	1811	LED	NSSW440-9159
D	1812	LED	NSSW440-9159
X	1801	Ceramic Resonator 4.97MHz	CSS1422
IL	1801	Lamp 14V 40mA	CEL1638

IL	1802	Lamp 14V 40mA LCD	CEL1638 CAW1606
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RESISTORS

R	1701	RS1/16S151J
R	1702	RS1/16S181J
R	1703	RS1/16S181J
R	1704	RS1/16S181J
R	1705	RS1/16S181J

R	1706	RS1/16S151J
R	1707	RS1/16S151J
R	1708	RS1/16S181J
R	1709	RS1/16S181J
R	1710	RS1/16S181J

R	1711	RS1/16S181J
R	1712	RS1/16S181J
R	1713	RS1/16S131J
R	1801	RS1/16S222J
R	1802	RS1/16S222J

====Circuit Symbol and No.==Part Name Part No.

R	1803	RS1/16S471J
R	1804	RS1/16S471J
R	1805	RS1/16S471J
R	1806	RS1/16S471J

CAPACITORS

C	1801	CKSRYB103K50
C	1811	CKSQYF104Z25
C	1812	CKSQYF104Z25

C Unit Number : CWX2411
Unit Name : Control Unit

MISCELLANEOUS

IC	201	IC	UPD63711GC
IC	301	IC	BA5985FM
IC	701	IC	BA05SFP
Q	101	Transistor	2SB1132
D	801	LED	CL203IRXTU

D	802	LED	CL203IRXTU
X	201	Ceramic Oscillator 16.934MHz	CSS1456
S	801	Spring Switch(HOME)	CSN1051
S	802	Spring Switch(CLAMP)	CSN1052

RESISTORS

R	101	RS1/8S120J
R	102	RS1/8S100J
R	103	RS1/16S222J
R	201	RS1/16S104J
R	202	RS1/16S103J

R	203	RS1/16S393J
R	204	RS1/16S103J
R	205	RS1/16S103J
R	206	RS1/16S182J
R	207	RS1/16S123J

R	302	RS1/16S153J
R	303	RS1/16S103J
R	501	RS1/16S102J
R	502	RA4C681J
R	601	RS1/16S102J

R	602	RS1/16S102J
R	605	RS1/16S0R0J
R	606	RS1/16S0R0J
R	801	RS1/8S751J
R	803	RS1/8S751J

R	902	RS1/16S0R0J
R	906	RS1/16S0R0J

CAPACITORS

C	101	CKSRYB102K50
C	102	CKSRYB104K16
C	103	CEV101M6R3
C	104	CEV470M6R3
C	105	CKSQYB334K16

C	106	CKSQYB334K16
C	107	CKSQYB334K16
C	201	CKSRYB104K16
C	202	CKSRYB471K50
C	203	CKSRYB104K16

C	205	CEV101M6R3
C	206	CKSRYB104K16
C	207	CKSRYB104K16
C	208	CKSRYB104K16
C	209	CKSRYB104K16

====Circuit Symbol and No.====Part Name		Part No.
C	210	CKSRYB332K50
C	211	CKSRYB104K16
C	212	CKSRYB104K16
C	213	CKSRYB392K50
C	214	CKSRYB104K16
C	215	CKSRYB104K16
C	216	CCSRCJ3R0C50
C	217	CCSRCH270J50
C	218	CKSRYB104K16
C	219	CCSRCH181J50
C	220	CCSRCH510J50
C	221	CKSRYB682K25
C	222	CEV220M6R3
C	223	CKSRYB103K25
C	224	CKSRYB224K10
C	301	CEV101M10
C	603	CCSQSL152J50
C	604	CCSQSL152J50
C	702	CCH1349
C	703	CKSQYB334K16

D Unit Number :
Unit Name : Photo Unit(S8)

Q	1	Photo-transistor	CPT230SX-TU
Q	2	Photo-transistor	CPT230SX-TU

Miscellaneous Parts List

M	1	Pickup Unit(Service)(P8)	CXX1285
M	1	Motor Unit(CARRIAGE)	CXB2190
M	2	Motor Unit(LOADING)	CXB2195
M	3	Motor Unit(SPINDLE)	CXB2562
		Fuse(10A)	CEK1136