● **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

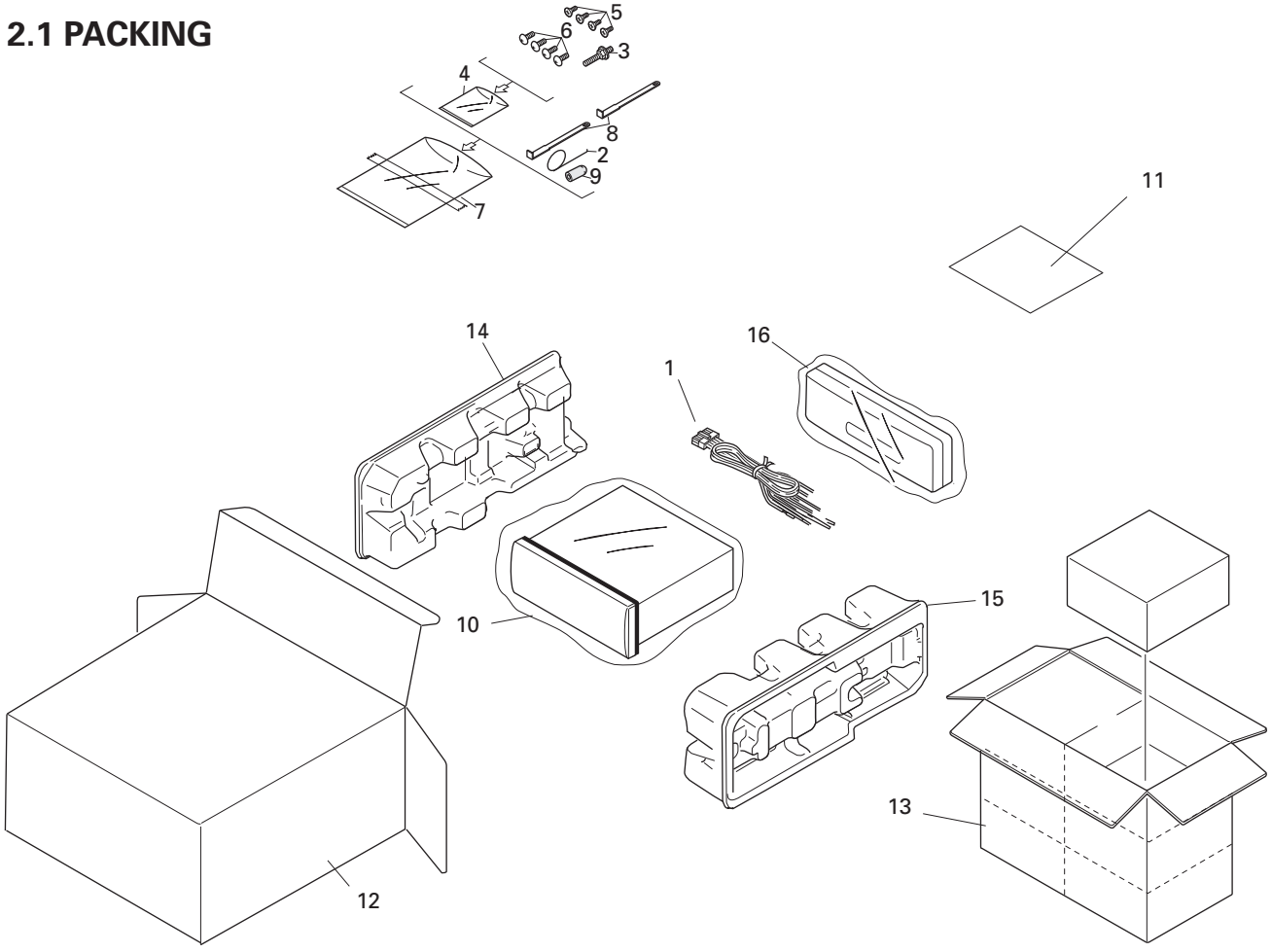
This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly 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.
	1	Cord Assy	CDE6468
	2	Spring	CBH1650
	3	Screw	CBA1002
*	4	Polyethylene Bag	CEG-127
	5	Screw	CRZ50P090FMC
	6	Screw	TRZ50P080FMC
*	7	Polyethylene Bag	CEG-158
	8	Handle	CNC5395
	9	Bush	CNV3930
	10	Polyethylene Bag	CEG1173
*	11-1	Warranty Card	See Contrast table(2)
	11-2	Owner's Manual	See Contrast table(2)
	11-3	Installation Manual	See Contrast table(2)
*	11-4	Card	See Contrast table(2)
	12	Carton	See Contrast table(2)
	13	Contain Box	See Contrast table(2)
	14	Protector	CHP2346
	15	Protector	CHP2347
	16	Case Assy	See Contrast table(2)

(2) CONTRAST TABLE

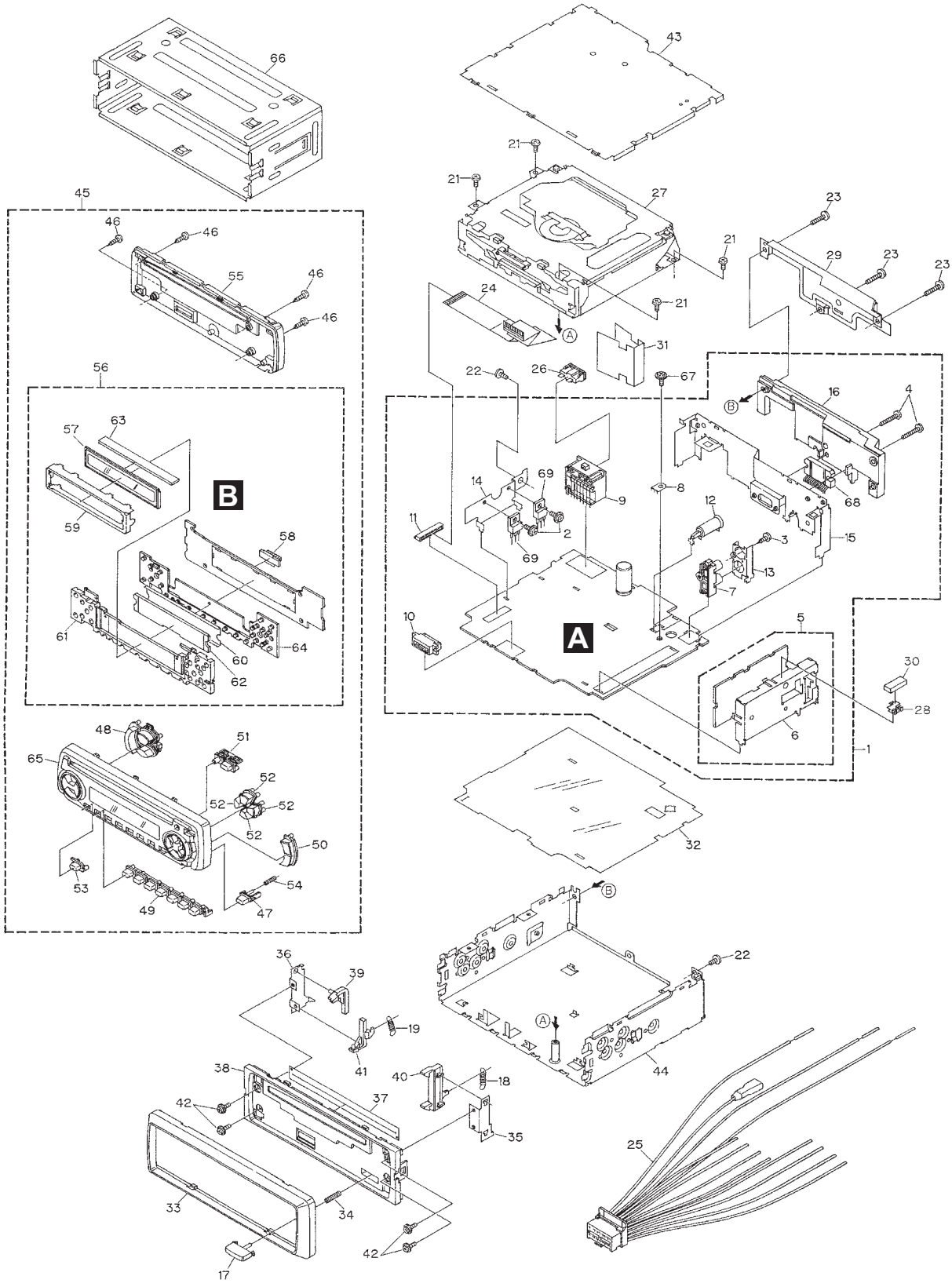
DEH-2300/X1M/UC, DEH-230/X1M/UC and DEH-23/X1M/UC are constructed the same except for the following:

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


66
43
21
21
27
21
23
29
23
23
45
46
46
55
46
46
24
A
31
56
22
26
67
16
4
B
57
63
59
B
14
69
9
8
68
12
11
2
3
15
69
13
7
58
61
64
60
62
10
A
5
30
28
6
1
48
51
65
52
52
52
52
50
53
54
49
47
32
B
36
39
22
19
41
40
18
44
38
42
37
35
33
34
42
17
25

(1) EXTERIOR SECTION PARTS LIST

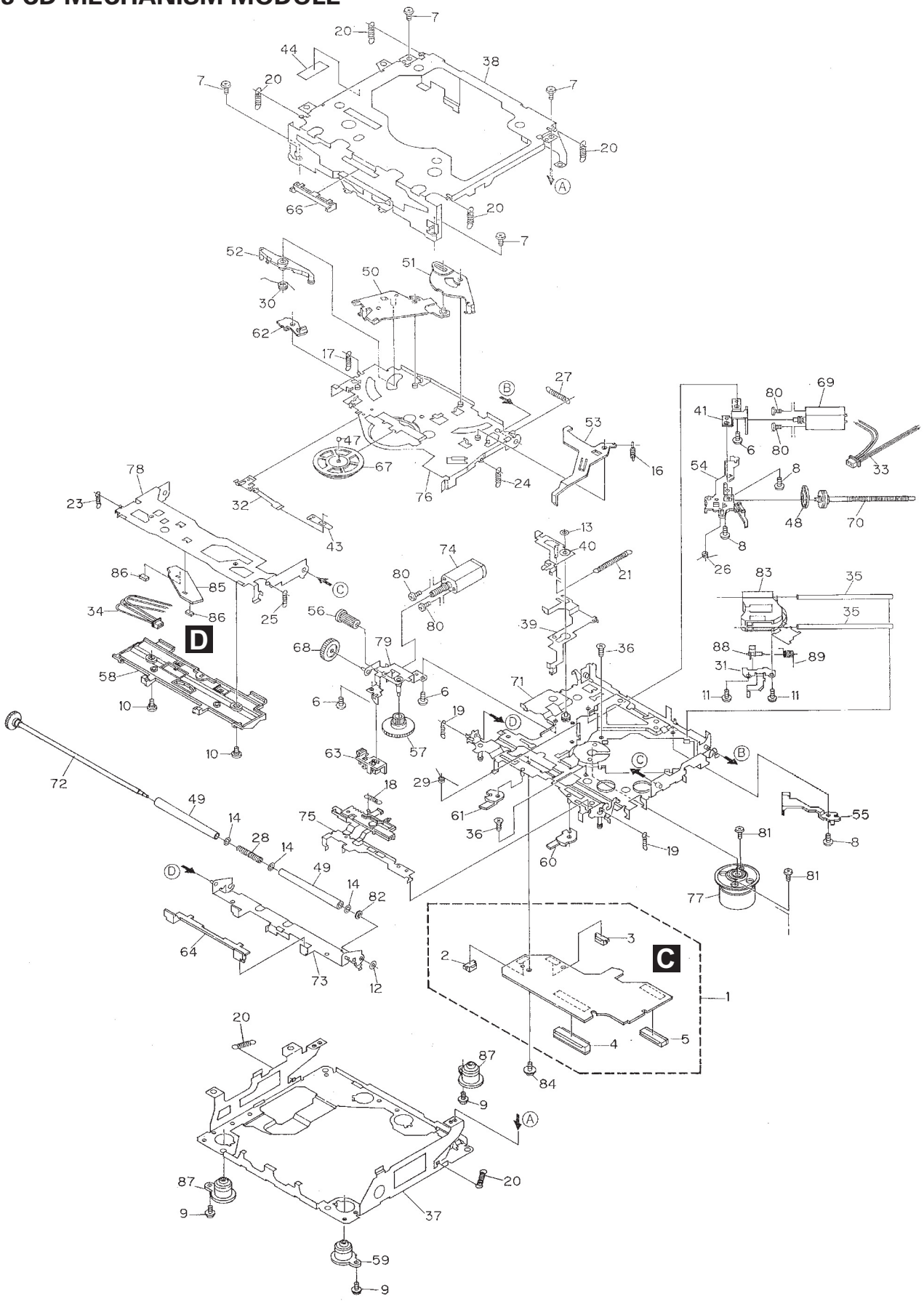
Mark No.	Description	Part No.
1	Tuner Amp Unit	CWM7292
2	Screw	ASZ26P080FMC
3	Screw	BPZ26P080FMC
4	Screw	BSZ26P160FMC
5	FM/AM Tuner Unit	CWE1563
6	Holder	CNC8815
7	Pin Jack(CN301)	CKB1041
8	Terminal(CN403)	CKF1059
9	Plug(CN901)	CKM1330
10	Connector(CN601)	CKS3581
11	Connector(CN605)	CKS3838
12	Antenna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

(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.
	1	Control Unit	CWX2411
	2	Connector(CN802)	CKS2192
	3	Connector(CN801)	CKS2193
	4	Connector(CN701)	CKS2773
	5	Connector(CN101)	CKS3486
	6	Screw	BMZ20P030FMC
	7	Screw	BSZ20P040FMC
	8	Screw(M2x3)	CBA1077
	9	Screw(M2x5)	EBA1028
	10	Screw	CBA1243
	11	Screw(M2x4)	CBA1362
	12	Washer	CBF1037
	13	Washer	CBF1038
	14	Washer	CBF1060
	15	•••••	
	16	Spring	CBH2079
	17	Spring	CBH2117
	18	Spring	CBH2314
	19	Spring	CBH2110
	20	Spring	CBH2282
	21	Spring	CBH2318
	22	•••••	
	23	Spring	CBH2324
	24	Spring	CBH2118
	25	Spring	CBH2161
	26	Spring	CBH2163
	27	Spring	CBH2189
	28	Spring	CBH2377
	29	Spring	CBH2260
	30	Spring	CBH2262
	31	Bracket	CNC8568
	32	Spring	CBL1369
	33	Connector	CDE5531
	34	Connector	CDE5532
	35	Shaft	CLA3894
	36	Screw(M2.6x6)	CBA1458
	37	Frame	CNC8565
	38	Frame	CNC8749
	39	Lever	CNC9265
	40	Arm	CNC8663
	41	Bracket	CNC8567
	42	•••••	
	43	Spacer	CNM3315
	44	Sheet	CNM6659
	45	•••••	
	46	•••••	
	47	Ball	CNR1189
	48	Belt	CNT1086
	49	Roller	CNV4509
	50	Arm	CNV6037
	51	Arm	CNV5247
	52	Arm	CNV5248
	53	Arm	CNV5249
	54	Guide	CNV5254
	55	Guide	CNV5255
	56	Gear	CNV5257
	57	Gear	CNV5256
	58	Guide	CNV6272
	59	Damper	CNV6174
	60	Arm	CNV6096
	61	Arm	CNV6031
	62	Arm	CNV6211
	63	Guide	CNV6012
	64	Guide	CNV5510
	65	•••••	
	66	Guide	CNV5751
	67	Clamper	CNV6013
	68	Gear	CNV5813
	69	Motor Unit(M1)	CXB2190
	70	Screw Unit	CXB5892
	71	Chassis Unit	CXB4797
	72	Gear Unit	CXB4728
	73	Arm Unit	CXB5753
	74	Motor Unit(M2)	CXB2195
	75	Lever Unit	CXB4730
	76	Arm Unit	CXB4731
	77	Motor Unit(M3)	CXB2562
	78	Arm Unit	CXB4732
	79	Bracket Unit	CXB4795
	80	Screw	JFZ20P025FMC
	81	Screw	JGZ17P025FZK
	82	Washer	YE20FUC
	83	Pickup Unit(Service)(P8)	CXX1285
	84	Screw	IMS26P030FMC
*	85	PCB	CNX2982
	86	Photo-transistor(Q1, 2)	CPT230SX-TU
	87	Damper	CNV6175
	88	Rack	CNV6014
	89	Spring	CBH2315

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.....

A Unit Number : CWM7292
Unit Name : Tuner Amp Unit

MISCELLANEOUS

=====Circuit Symbol and No.		===Part Name	Part No.
IC	301	IC	PML003AM
IC	302	IC	PAL006A
IC	601	IC	PE5196A
IC	602	IC	S-80834ANY
Q	346	Transistor	RN1610
Q	350	Transistor	DTA124EK
Q	351	Transistor	DTC114EK
Q	353	Transistor	DTA124EK
Q	411	Transistor	2SC2412K
Q	650	Transistor	2SA1037K
Q	901	Transistor	2SC2412K
Q	902	Transistor	2SC2412K
Q	903	Transistor	2SD1859
Q	904	Transistor	2SD2396
Q	905	Transistor	2SB1243
Q	906	Transistor	DTC114EK
Q	920	Transistor	RN46A1
Q	981	Transistor	2SD2396
Q	982	Transistor	RN46A1
D	650	Diode	1SS270
D	651	Diode	1SS270
D	652	Diode	1SS270
D	653	Diode	1SS270
D	654	Diode	1SS270
D	655	Diode	1SS270
D	901	Diode	HZS7L(C2)
D	902	Diode	S5688G
D	903	Diode	S5688G
D	904	Diode	HZS7L(A1)
D	905	Diode	S5688G
D	906	Diode	HZS6L(B2)
D	907	Diode	HZS9L(B3)
D	941	Diode	S5688G
D	942	Diode	S5688G
D	981	Diode	HZS9L(B1)
L	310	Ferri-Inductor	LAU1R0M
L	401	Ferri-Inductor	LAU4R7K
L	402	Ferri-Inductor	LAU2R2K
L	403	Inductor	LAU100K
L	610	Ferri-Inductor	LAU101K
L	611	Ferri-Inductor	LAU2R2K
L	650	Ferri-Inductor	LAU2R2K
L	901	Choke Coil 600µH	CTH1221
X	610	Crystal Resonator 4.194304MHz	CSS1023
AR	946	Arrester	DSP-201M-S00B
		FM/AM Tuner Unit	CWE1563

RESISTORS

=====Circuit Symbol and No.		===Part Name	Part No.
R	310		RD1/4PU222J
R	311		RD1/4PU222J
R	332		RS1/16S221J
R	333		RS1/16S221J
R	334		RS1/16S221J
R	335		RS1/16S221J
R	342		RS1/16S681J
R	343		RS1/16S681J
R	344		RS1/16S223J
R	345		RS1/16S223J
R	346		RS1/16S0R0J
R	351		RS1/16S102J
R	352		RS1/16S103J
R	353		RS1/16S103J
R	354		RS1/16S331J
R	360		RD1/4PU153J
R	411		RS1/16S681J
R	412		RS1/16S681J
R	413		RS1/16S681J
R	414		RS1/16S103J
R	415		RS1/16S681J
R	416		RD1/4PU473J
R	417		RD1/4PU472J
R	418		RS1/16S473J
R	419		RS1/16S473J
R	420		RS1/16S473J
R	421		RS1/16S473J
R	422		RS1/16S473J
R	423		RS1/16S681J
R	424		RS1/16S681J
R	425		RS1/16S393J
R	427		RS1/16S222J
R	428		RS1/16S222J
R	460		RS1/16S272J
R	461		RS1/16S272J
R	464		RS1/16S162J
R	465		RS1/16S162J
R	468		RS1/16S0R0J
R	469		RS1/16S0R0J
R	610		RD1/4PU822J
R	611		RS1/16S473J
R	619		RS1/16S0R0J
R	620		RS1/16S223J
R	622		RD1/4PU222J
R	623		RD1/4PU222J
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.
R	629		RS1/16S473J
R	630		RS1/16S822J
R	631		RD1/4PU102J
R	649		RS1/16S222J
R	650		RD1/4PU222J
R	651		RD1/4PU222J
R	652		RS1/16S472J
R	653		RD1/4PU222J
R	654		RS1/16S473J
R	655		RS1/16S103J
R	656		RS1/16S103J
R	657		RD1/4PU102J
R	658		RD1/4PU102J
R	660		RS1/16S1R0J
R	681		RD1/4PU681J
R	682		RS1/16S102J
R	683		RS1/16S102J
R	684		RS1/16S102J
R	901		RS1/16S104J
R	902		RD1/4PU104J
R	903		RD1/4PU103J
R	904		RS1/16S473J
R	905		RD1/4PU102J
R	906		RS1/16S473J
R	907		RS1/16S473J
R	908		RS1/16S472J
R	909		RD1/4PU103J
R	910		RS1/16S0R0J
R	911		RS1/16S122J
R	912		RD1/4PU103J
R	913		RS1/16S101J
R	914		RD1/4PU152J
R	916		RS1/16S221J
R	918		RS1/16S1R0J
R	944		RD1/4PU152J
R	981		RS1/16S472J
R	982		RS1/16S222J
R	983		RD1/4PU221J
R	984		RD1/4PU221J

CAPACITORS

C	310		CKSRYB105K6R3
C	311		CKSRYB104K16
C	313		CKSRYB105K6R3
C	314		CKSRYB104K16
C	315		CKSRYB102K50
C	316		CKSRYB102K50
C	330		CEJA470M10
C	331		CEJA100M16
C	332		CKSRYB104K16
C	333		CEJA4R7M35
C	334		CEJA4R7M35
C	336		CKSRYB153K25
C	337		CKSRYB153K25
C	340		CEAL2R2M50
C	341		CEJA2R2M50
C	346		CCSRCH100D50
C	347		CCSRCH100D50
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.
C	366		CKSQYB474K16
C	367		CKSQYB474K16
C	368		CKSQYB474K16
C	369		CKSQYB474K16
C	370		CKSQYB474K16
C	371		CKSQYB474K16
C	372		CKSQYB225K10
C	373		CKSRYB473K25
C	390		CKSRYB104K16
C	391	3300µF/16V	CCH1368
C	411		CKSRYB223K25
C	412		CKSRYB223K25
C	413		CKSRYB102K50
C	414		CEJA220M10
C	415		CKSRYB473K16
C	416		CEAL101M10
C	417		CKSRYB472K50
C	419		CCSRCH101J50
C	420		CCSRCH101J50
C	462		CKSRYB183K25
C	463		CKSRYB183K25
C	490		CKSQYB103K50
C	499		CKSRYB103K50
C	612		CEJA4R7M35
C	613		CKSRYB473K16
C	614		CCSRCH101J50
C	628		CCSRCH150J50
C	629		CCSRCH150J50
C	630		CKSRYB473K16
C	631		CEAL2R2M50
C	650		CKSRYB104K16
C	901		CEJA101M10
C	902		CKSRYB473K16
C	903	470µF/16V	CCH1331
C	904		CKSRYB473K16
C	905	330µF/16V	CCH1326
C	906		CKSRYB103K50
C	907		CEJA101M16
C	941		CKSRYB473K16
C	981		CEJA101M10
C	982		CKSRYB102K50
C	983		CKSRYB473K16

B Unit Number : CWM7303 (DEH-2300/X1M/UC, DEH-230/X1M/UC) Unit Name : Keyboard Unit

MISCELLANEOUS

IC	1801	IC	PD6340A
D	1701	LED	SML210PT
D	1702	LED	SML210PT
D	1703	LED	SML210PT
D	1704	LED	SML210PT
D	1705	LED	SML210PT
D	1706	LED	SML210PT
D	1707	LED	SML210PT
D	1708	LED	SML210PT
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	CEL1651
IL	1802	Lamp 14V 40mA	CEL1651
		LCD	CAW1606

=====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	CEL1638
	LCD	CAW1606
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
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	10µF/10V	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

		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