1. SAFETY INFORMATION

● KEH-P1010/XM/UC

CAUTION

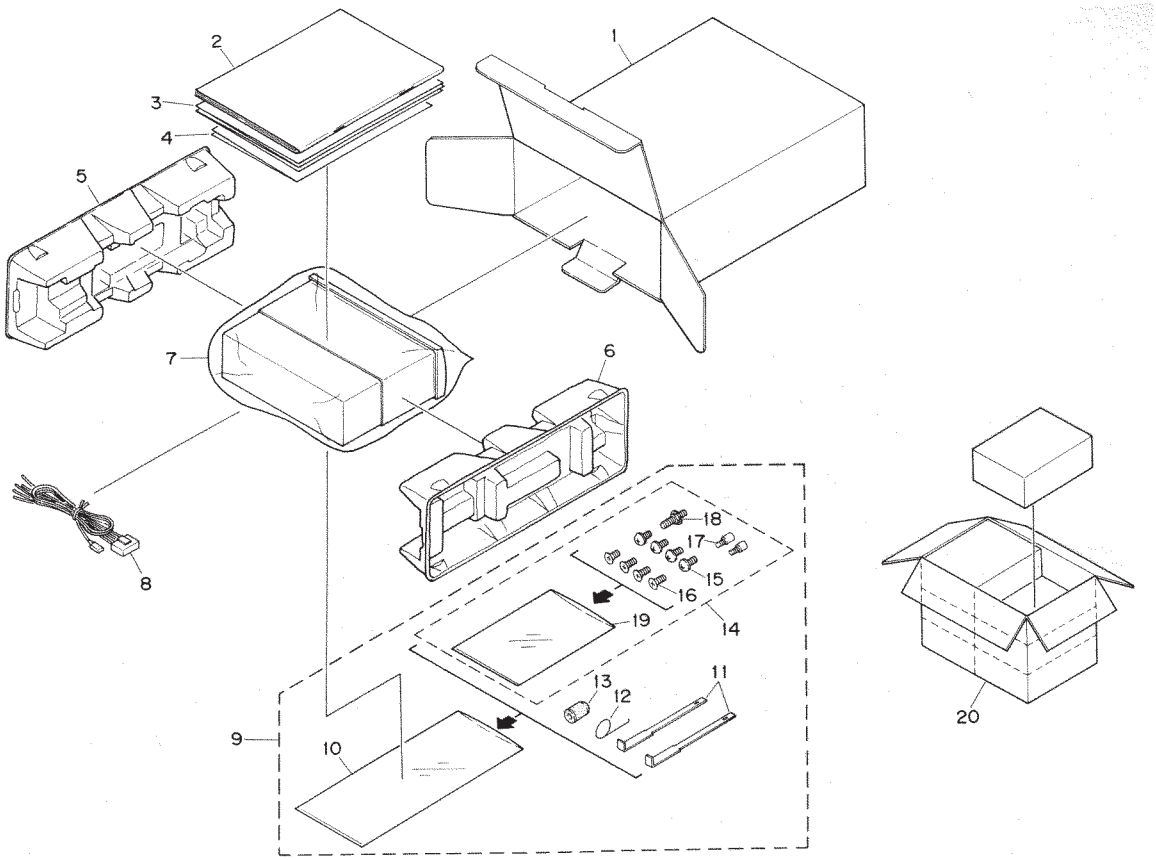
**This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly 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 ar
California to caruse 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.

● PACKING SECTION PARTS LIST

KEH-P1010/XM/UC

Mark	No.	Description	Part No.
	1	Carton	CZE5573
	2	Owner's Manual	CZR2936
	3	Installation Manual	CZR2937
*	4	Card	ARY1048
	5	Protector	CHP1623
	6	Protector	CHP1622
	7	Polyethylene Bag	CEG1173
	8	Cord Assy	CZD2976
	9	Accessory Assy	CZE2954
*	10	Polyethylene Bag	CZE2908
	11	Handle	CNC5395
	12	Spring	CBH1650
	13	Bush	CNV3930
	14	Screw Assy	CZE2952
	15	Screw	TRZ50P080FMC
	16	Screw	CRZ50P080FMC
	17	Screw(M2x4)	CBA1488
	18	Screw	CBA1002
*	19	Polyethylene Bag	CEG-127
	20	Contain Box	CZH5574

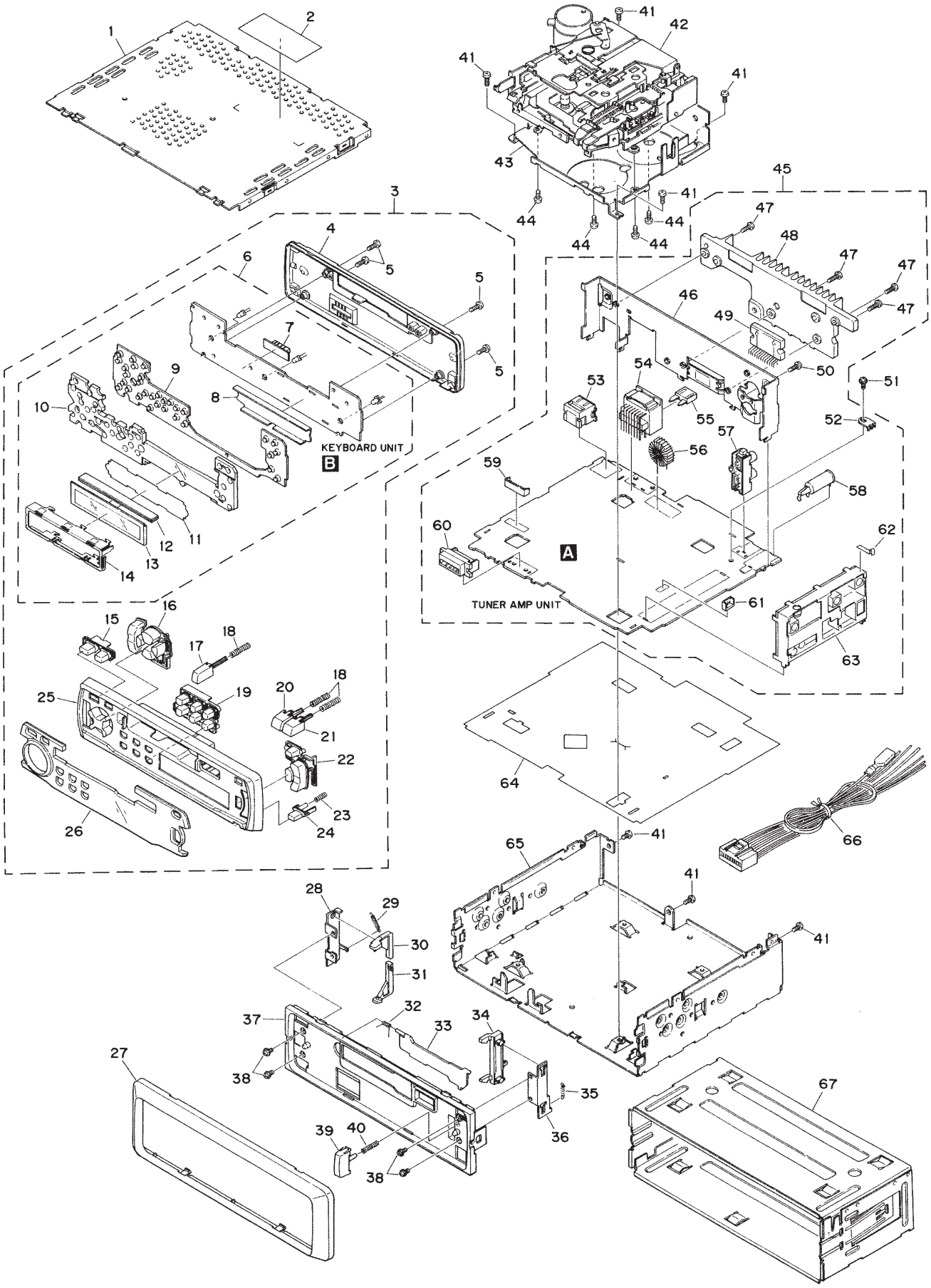
KEH-P1015/XM/ES

Mark	No.	Description	Part No.
	1	Carton	CZH5575
	2	Owner's Manual	CZR2938
	3	Installation Manual	CZR2939
	4	●●●●●	
	5	Protector	CHP1623
	6	Protector	CHP1622
	7	Polyethylene Bag	CZE2903
	8	Cord Assy	CZD2976
	9	Accessory Assy	CZE2955
*	10	Polyethylene Bag	CZE2908
	11	Handle	CNC5395
	12	Spring	CBH1650
	13	Bush	CNV3930
	14	Screw Assy	CZE2953
	15	Screw	TRZ50P080FMC
	16	Screw	CRZ50P080FMC
	17	●●●●●	
	18	Screw	CBA1002
*	19	Polyethylene Bag	CEG-127
	20	Contain Box	CZH5576

Owner's Manual,Installation Manual

Part No.	Language
CZR2936	English, French, Spanish
CZR2937	English, French, Spanish
CZR2938	English, Spanish, Portuguese, China, Arabic
CZR2939	English, Spanish, Portuguese, China, Arabic

2.2 EXTERIOR



(1)EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Case	CZN6739
*	2	Label	CZA5543
	3	Grille Unit	See Contrast table(2)
	4	Cover	CZN6753
	5	Screw	BPZ20P100FZK
	6	Keyboard Unit	CZW5520
	7	Connector(CN900)	CKS3580
	8	Holder	CZN6759
	9	Rubber	CZN6744
	10	Lighting Conductor	CZN6758
	11	Sheet	CZN6760
	12	Connector	CZN6745
	13	LCD(LCD900)	CZA5540
	14	Holder	CZN6743
	15	Button(SOURCE)	CZA5535
	16	Button(CROSS)	CZA5532
	17	Button(EJECT)	CZA5531
	18	Spring	CZB2976
	19	Button(1-6)	CZA5533
	20	Button(REW)	CZA5530
	21	Button(FF)	CZA5529
	22	Button(EQ)	CZA5534
	23	Spring	CZB2977
	24	Button	CAC5789
	25	Grille	CZN6746
	26	Plate Assy	See Contrast table(2)
	27	Panel	CNS6344
	28	Bracket	CNC6135
	29	Spring	CBH1834
	30	Arm	CNV4692
	31	Arm	CNV4693
	32	Spring	CBH2126
	33	Door	CAT2109
	34	Arm	CNV4728
	35	Spring	CBH1835

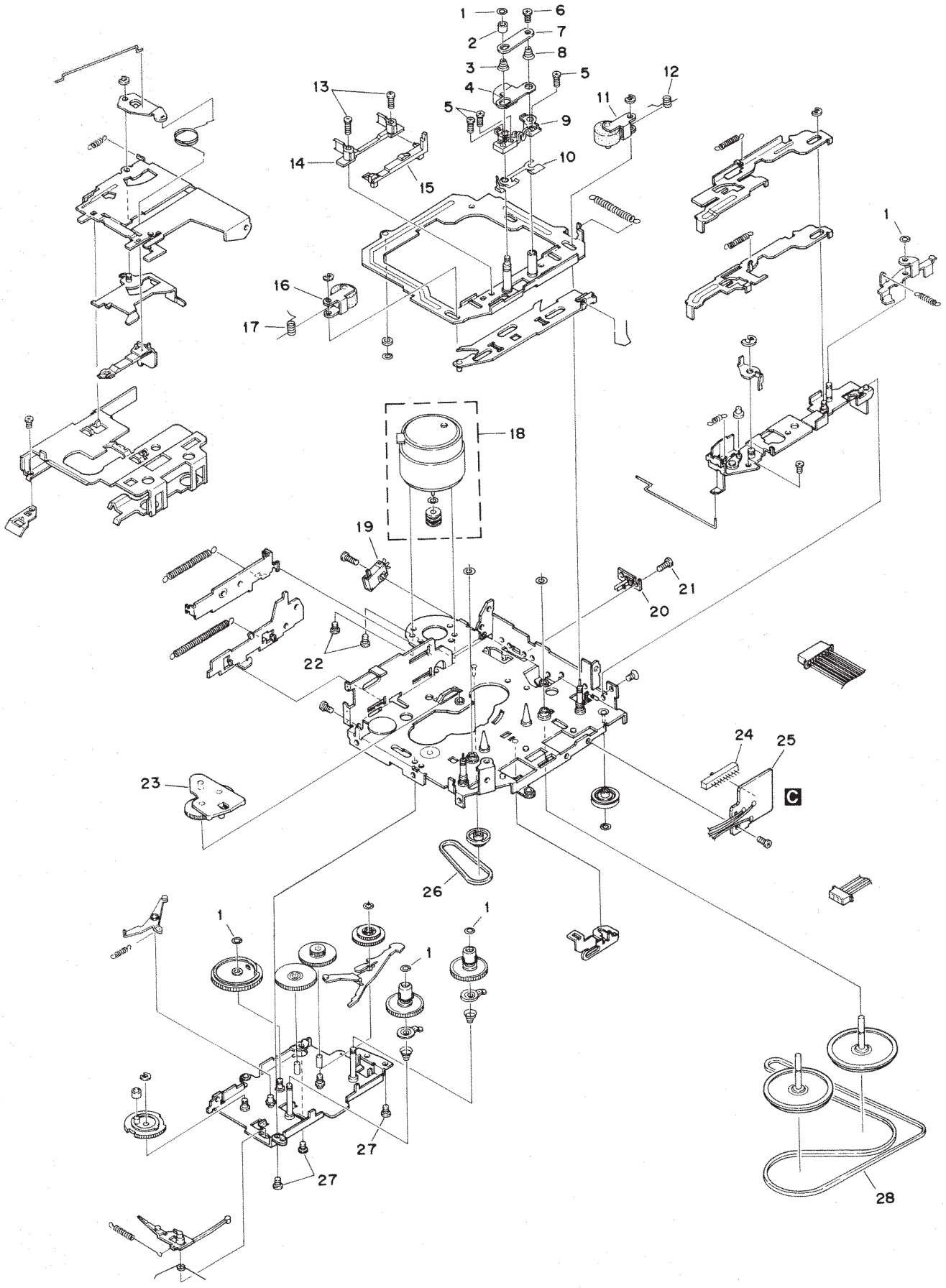
Mark	No.	Description	Part No.
	36	Bracket	CNC6791
	37	Panel	CZN6755
	38	Screw	IMS20P030FZK
	39	Button	CAC4836
	40	Spring	CBH1996
	41	Screw	BSZ26P060FMC
	42	Mechanism	CZX5514
	43	Bracket	CZN6738
	44	Screw	BMZ26P040FMC
	45	Tuner Amp Unit	See Contrast table(2)
*	46	Panel	CZN6741
	47	Screw	BSZ26P100FMC
*	48	Heat Sink	CZN6740
	49	IC(IC500)	TA8277H
	50	Screw	BPZ26P100FZK
	51	Screw	ISS26P055FUC
	52	Terminal(CN101)	CKF1059
	53	Connector(CN600)	CKS3408
	54	Connector(CN200)	CZK2943
	55	Fuse(10A)	CEK1208
	56	Choke Coil(L700)	CTH1221
	57	Pin Jack(CN700)	CKB1041
	58	Antenna Jack(CN100)	CKX1056
	59	Plag(CN300)	CZK2946
	60	Connector(CN800)	CKS3581
	61	Plug(CN350)	CZK2945
	62	Plate	CZN6730
	63	FM/AM Tuner Unit	CZW5523
	64	Insulator	CZN6742
	65	Chassis	CZN6735
	66	Cord Assy	CZD2976
	67	Holder Unit	CXB6681

(2)CONTRAST TABLE

KEH-P1010/XM/UC and KEH-P1015/XM/ES have the same cuntruction except for the following:

Mark No.	Symbol and Description	Part No.	
		KEH-P1010/XM/UC	KEH-P1015/XM/ES
3	Grille Unit	CZX5510	CZX5511
26	Plate Assy	CZX5505	CZX5506
45	Tuner Amp Unit	CZW5517	CZW5518

2.3 CASSETTE MECHANISM



NOTE

- For the cassette mechanism, only the parts listde here are available as spare parts.
  The others (not shown in the list)cannot be supplied.

● CASSETTE MECHANISM SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Washer	1-0036-5024
	2	Roller	1-0363-3018
	3	Spring	1-0036-4011
	4	Head	1-0036-7123
	5	Screw	1-0138-5002
	6	Screw	2-1012-0040-C2
	7	Plate	1-0036-1015
	8	Spring	1-0036-4010
	9	Arm	10138-2005-3
	10	Shim	1-0138-1006
	11	Pinch Arm (F) Assy	1-0036-6014
	12	Spring	1-0363-4003
	13	Screw	2-1032-0070-C2
	14	Tape Guide	1-0038-2018
	15	Link	1-0363-2006
	16	Pinch Arm (R) Assy	1-0036-6013
	17	Spring	1-0363-4004
	18	Motor Assy (M1)	X-0363-7006
	19	Power Switch (S1)	1-0363-7005
	20	Mute Switch (S2)	1-0363-7001
	21	Screw	213317040-C2
	22	Screw	2-1032-0025-C2
	23	Arm Assy	X-0363-6003
	24	Slide Switch (S3)	1-0363-7002
	25	SW PWB	1-0363-7008
	26	Belt	1-0036-5018
	27	Screw	213820030-C2
	28	Belt	1-0036-5004

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 :CZW5517(KEH-P1010/XM/UC)
:CZW5518(KEH-P1015/XM/ES)
Unit Name :Tuner Amp Unit

MISCELLANEOUS

=====Circuit Symbol and No.		===Part Name	Part No.
IC	1	IC	000874110
IC	2	IC	CA0008AM
IC	3	IC	S-80834ANMP
IC	130	IC	TB2118F
IC	300	IC	BA4560F
IC	400	IC	PML003AM
IC	500	IC	TA8277H
Q	1	Transistor	DTC114EK
Q	2	Transistor	2PB709A
Q	3	Transistor	DTC114EK
Q	100	Transistor	DTC124EK
Q	102	Transistor	DTA114YKA
Q	104	Transistor	2SC3668
Q	110	Transistor	DTB113ZK
Q	111	Transistor	DTA114YKA
Q	112	Transistor	DTC124EK
Q	113	Transistor	DTC124EK
Q	300	Transistor	2SB1238
Q	301	Transistor	DTC114EK
Q	401	Transistor	DTC143TK
Q	402	Transistor	DTC143TK
Q	403	Transistor	DTA124EK
Q	500	Transistor	DTC124EK
Q	501	Transistor	2PD601A
Q	700	Transistor	2PD601A
Q	701	Transistor	2SB1238
Q	702	Transistor	2SD1760F5
Q	703	Transistor	2PD601A
Q	704	Transistor	2SA1428
Q	705	Transistor	DTC114EK
Q	706	Transistor	2SA1703
Q	707	Transistor	2PB709A
Q	708	Transistor	DTA124EK
Q	709	Transistor	2PD601A
Q	710	Transistor	2PD601A
Q	711	Transistor	DTC124EK
Q	801	Transistor	2PB709A
D	1	Diode	1SS133
D	104	Diode	1SS355
D	109	Diode	1SS133
D	111	Diode	1SS133
D	112	Diode	MTZJ5R6(B)
D	300	Diode	11ES2
D	301	Diode	1SS133
D	500	Diode	1SS133
D	501	Diode	1SS133
D	502	Diode	11ES2
D	503	Diode	11ES2
D	504	Diode	11ES2
D	505	Diode	11ES2
D	506	Diode	11ES2
D	507	Diode	11ES2
D	508	Diode	11ES2
D	509	Diode	11ES2
D	700	Diode	11ES2
D	701	Diode	11ES2
D	702	Diode	11ES2
D	703	Diode	HZS6L(B2)
D	704	Diode	HZS9L(A2)
D	705	Diode	MTZJ10(A)
D	706	Diode	11ES2
D	709	Diode	1SS133
D	710	Diode	11ES2
D	711	Diode	11ES2
D	712	Diode	HZS7L(C2)
D	713	Diode	HZS7L(A1)
D	800	Diode	DA204K
D	801	Diode	DA204K
D	802	Diode	DA204K
D	803	Diode	MTZJ6R8(B)

=====Circuit Symbol and No.	Part Name	Part No.
L 2	Ferri-Inductor	LAU2R2K
L 3	Ferri-Inductor	LAU2R2K
L 100	Coil	CZT2930
L 102	Ferri-Inductor	LAU330K
L 103	Inductor	LAU100K
L 130	Inductor	LAUR47K
L 700	Choke Coil 250μH	CTH1221
L 801	Inductor	LAU100K
X 1	Crystal Resonator 4.194304MHz	CZS2918
X 100	Crystal Resonator 10.250MHz	CSS1432
DSP100	Surge Protector	DSP-200-A11F
TU 100	FM/AM Tuner Unit	CZW5523
JC 101		RS1/8S0R0J
JC 301		RS1/16S0R0J

RESISTORS

R 1		RS1/16S473J
R 3		RS1/16S102J
R 4		RS1/16S102J
R 5		RS1/16S473J
R 6		RS1/16S473J
R 7		RD1/4PU102J
R 8		RS1/16S101J
R 9		RS1/16S101J
R 10		RD1/4PU620J
R 11		RS1/16S223J
R 12		RS1/16S472J
R 13		RS1/16S822J
R 14		RD1/4PU102J
R 15		RD1/4PU222J
R 18		See Contrast table
R 19		RS1/16S0R0J
R 20		See Contrast table
R 21		RS1/16S0R0J
R 103		RS1/16S103J
R 104		RD1/4PU102J
R 105		RS1/16S102J
R 106		RS1/16S102J
R 107		RS1/16S2R2J
R 108		RS1/16S473J
R 109		RS1/16S223J
R 110		RS1/16S222J
R 111		RS1/16S152J
R 112		RS1/16S223J
R 115		RD1/4PU102J
R 116		RD1/4PU102J
R 117		RD1/4PU471J
R 118		RD1/4PU223J
R 121		RS1/16S101J
R 122		RD1/4PU151J
R 124		RS1/16S473J

=====Circuit Symbol and No.	Part Name	Part No.
R 125		RS1/16S153J
R 126		RS1/16S123J
R 127		RS1/16S682J
R 128		RS1/16S103J
R 129		RS1/16S102J
R 130		RD1/4PU102J
R 131		RD1/4PU102J
R 132		RD1/4PU10
R 133		RS1/16S102J
R 134		RD1/4PU471J
R 139		RS1/16S182J
R 140		RS1/16S182J
R 301		RS1/16S473J
R 302		RS1/16S473J
R 303		RS1/16S330J
R 304		RS1/16S330J
R 305		RS1/16S153J
R 306		RS1/16S153J
R 307		RS1/16S564J
R 308		RS1/16S564J
R 309		RD1/4PU102J
R 310		RD1/4PU102J
R 311		RS1/16S103J
R 312		RS1/16S103J
R 313		RS1/16S103J
R 314		RD1/2PM102J
R 315		RD1/4PU104J
R 316		RD1/4PU104J
R 317		RS1/16S104J
R 318		RD1/4PU1R5J
R 319		RD1/4PU1R5J
R 320		RD1/4PU330J
R 401		RD1/4PU821J
R 402		RD1/4PU821J
R 403		RS1/16S223J
R 404		RD1/4PU223J
R 405		RS1/16S102J
R 406		RD1/4PU102J
R 407		RS1/16S101J
R 408		RS1/16S101J
R 409		RS1/16S101J
R 410		RS1/16S101J
R 411		RD1/4PU222J
R 412		RS1/16S0R0J
R 413		RD1/4PU222J
R 415		RS1/16S821J
R 416		RS1/16S821J
R 417		RS1/16S473J
R 418		RS1/16S473J
R 419		RD1/4PU562J

=====Circuit Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Name	Part No.
R 500	RS1/16S101J	C 112	CEAL221M10
R 501	RS1/16S221J	C 113	CKSRYB104K25
R 502	RS1/16S103J	C 116	CKSRYB103K50
R 503	RS1/16S152J	C 117	CKSRYB473K25
R 504	RD1/4PU223J	C 118	CKSRYB105K10
R 505	RD1/4PU103J	C 119	CKSRYB473K25
R 506	RS1/16S153J	C 120	CKSRYB472K50
R 700	RS1/16S0R0J	C 121	CKSRYB103K50
R 701	RS1/16S223J	C 122	CEAL100M16
R 702	RS1/16S472J	C 123	CEAL100M16
R 703	RS1/16S103J	C 124	CCSRCH101J50
R 704	RS1/16S223J	C 125	CKSRYB473K25
R 705	RS1/16S223J	C 126	CCSRCH101J50
R 706	RS1/16S102J	C 127	CCSRCH101J50
R 707	RS1/16S471J	C 128	CEAL220M16
R 709	RS1/16S104J	C 129	CCSRCH7R0D50
R 710	RS1/16S473J	C 130	CCSRCK2R0D50
R 716	RD1/4PU102J	C 131	CCSRCH7R0D50
R 717	RS1/16S472J	C 136	CKSRYB473K25
R 718	RS1/16S473J	C 137	CCSRCH471J50
R 719	RS1/16S223J	C 138	CCSRCH561J50
R 720	RS1/16S473J	C 140	CEAL470M10
R 721	RS1/16S473J	C 141	CKSRYB102K50
R 722	RD1/2PM102J	C 143	CEAL470M10
R 723	RS1/16S223J	C 144	CKSRYB104K25
R 724	RD1/2PM102J	C 145	CKSRYB473K25
R 801	RS1/16S222J	C 146	CKSRYB473K25
R 802	RD1/4PU222J	C 301	CCSRCH471J50
R 803	RD1/4PU222J	C 303	CKSRYB102K50
R 804	RS1/16S473J	C 304	CKSRYB102K50
R 805	RD1/4PU222J	C 305	CEAL101M10
R 806	RD1/4PU223J	C 306	CEAL101M10
R 807	RD1/4PU222J	C 307	CKSRYB103K50
		C 308	CKSRYB103K50
CAPACITORS		C 309	CCSRCH101J50
C 1	CEAL4R7M16	C 310	CCSRCH101J50
C 2	CKSRYB102K50	C 311	CEAL330M10
C 3	CKSRYB102K50	C 312	CEAL330M16
C 4	CEAL2R2M50	C 313	CKSRYB103K50
C 5	CKSRYB104K25	C 401	CKSRYB105K10
C 6	CCSRCH200J50	C 402	CKSRYB105K10
C 7	CCSRCH200J50	C 403	CKSRYB105K10
C 101	CKSRYB473K25	C 404	CKSRYB105K10
C 104	CKSRYB102K50	C 405	CKSRYB224K10
C 105	CKSRYB223K25	C 406	CKSRYB224K10
C 106	CKSRYB103K50	C 407	CKSRYB224K10
C 107	CKSRYB223K25	C 408	CKSRYB224K10
C 108	CKSRYB223K25	C 409	CKSRYB104K25
C 110	CKSRYB103K50	C 410	CEAL470M10
C 111	CKSRYB223K25	C 411	CEAL100M16

=====Circuit Symbol and No.	Part Name	Part No.
C 413		CKSRYB105K10
C 414		CKSRYB105K10
C 415		CKSRYB103K50
C 416		CKSRYB103K50
C 417		CKSRYB472K50
C 418		CKSRYB472K50
C 421		CEAL2R2M50
C 422		CEAL2R2M50
C 423		CKSRYB222K50
C 424		CKSRYB222K50
C 427		CKSRYB474K10
C 428		CKSRYB474K10
C 429		CKSRYB474K10
C 430		CKSRYB474K10
C 431		CKSRYB474K10
C 432		CKSRYB474K10
C 433		CKSRYB474K10
C 434		CKSRYB474K10
C 500		CKSRYB104K25
C 501	3300µF/16V	CCH1018
C 502		CKSRYB474K10
C 503		CKSRYB474K10
C 504		CKSRYB105K10
C 505		CKSRYB105K10
C 506		CKSRYB473K25
C 508		CEAL100M16
C 509		CEAL330M10
C 511		CKSRYB224K10
C 700		CEA471M16
C 701		CKSRYB103K50
C 703		CEAL470M10
C 704		CEAL101M10
C 705		CKSRYB103K50
C 706		CEAL101M10
C 709		CKSRYB102K50
C 712		CEAL3RM50
C 714		CEALR10M50
C 715		CKSRYB473K25
C 801		CCSRCH101J50
C 803		CKSRYB473K25

B Unit Number :CZW5520
Unit Name :Keyboard Unit

MISCELLANEOUS

=====Circuit Symbol and No.	Part Name	Part No.
IC 900	IC	PD6293A
D 900	Diode	DA204K
L 900	Ferri-Inductor	LAU101K
X 900	Ceramic Resonator 4.97MHz	CSS1422
PL 901	Lamp 14V65mA	CZE2950
PL 902	Lamp 14V65mA	CZE2950
PL 903	Lamp 14V65mA	CZE2950
RN 901		RAB4C473J
RN 902		RAB4C473J
LCD900	LCD	CZA5540

RESISTORS

R 900		RS1/16S473J
R 901		RS1/16S472J
R 902		RS1/16S222J
R 903		RS1/16S222J

CAPACITORS

C 900		CKSRYB102K50
C 901		CKSYF225Z16
C 902		CKSRYB104K25

C Unit Number :
Unit Name :Switch PCB

S	3	Slide Switch(FWD/REV)	1-0363-7002

Miscellaneous Parts List

S	1	Switch(TAPE/TUN)	1-0363-7005
S	2	Switch(Mute)	1-0363-7001
M	1	Motor Assy	X-0363-7006
HD	1	Head	1-0036-7123

CONTRAST TABLE of TUNER AMP UNIT

KEH-P1010/XM/UC and KEH-P1015/XM/ES have the same cuntruction except for the following:

Symbol and Description	Part No.	
	KEH-P1010/XM/UC	KEH-P1015/XM/ES
R 18	Not used	RS1/16S473J
R 20	RDV4PU473J	Not used