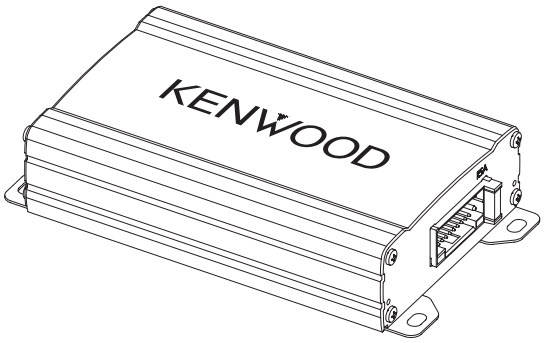
KENWOOD

SERVICE MANUAL

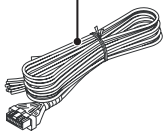
POWER AMPLIFIER

KAC-M1804

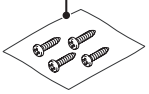


KAC-M1804 (North America) : K0
KAC-M1804 (Europe) : E1

DC cord
(E30-8358-05)

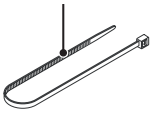


Screw set
(N99-1840-05)

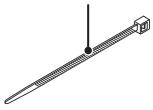


Cord with pinplug
(E3A-00xx-00) x2

Wire band
(J61-0629-05) x2



Wire band
(J61-0620-05) x2



This product uses Lead Free solder. PbF

This product complies with the **RoHS** directive for the European market.

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No.WA122<Rev.002>
2015/3

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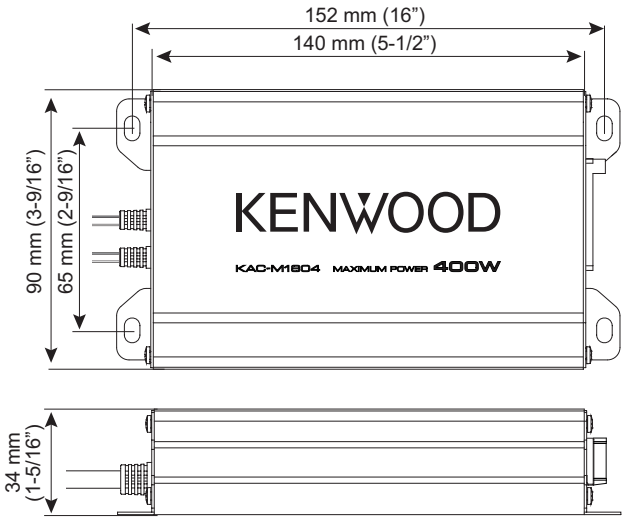
SPECIFICATION

Audio section	
Max power output	400 W
Speaker impedance	4 Ω
Frequency response (+0, -1 dB)	20 Hz - 20 kHz
Signal to noise ratio	90 dB
Input impedance	10 kΩ
General	
Operating voltage	14.4 V (11 - 16 V allowable)
Current consumption	15 A
Dimensions (W × H × D)	140 × 34 × 90 mm 5-1/2 × 1-5/16 × 3-9/16 inch
Weight	0.5 kg (1.1 lbs)
CEA-2006	
RMS Watts per channel @ 4 ohms, ≤ 1% THD+N	45 W × 4
Signal to noise ratio (Reference: 1Watt into 4 ohms)	74 dBA

Subject to change without notice.

INSTALLATION



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SECTION 1
PRECAUTION

1.1 Safety Precautions

(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Remote control

The Lithium battery is in danger of explosion if replaced incorrectly. Replace it only with the same or equivalent type.

1.6 Preventing static electricity

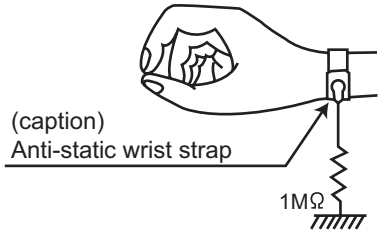
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the semiconductors. Take care to prevent this when performing repairs.

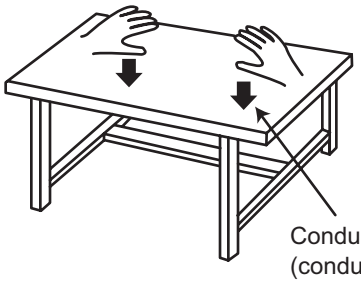
1.6.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as laser products.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.





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SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

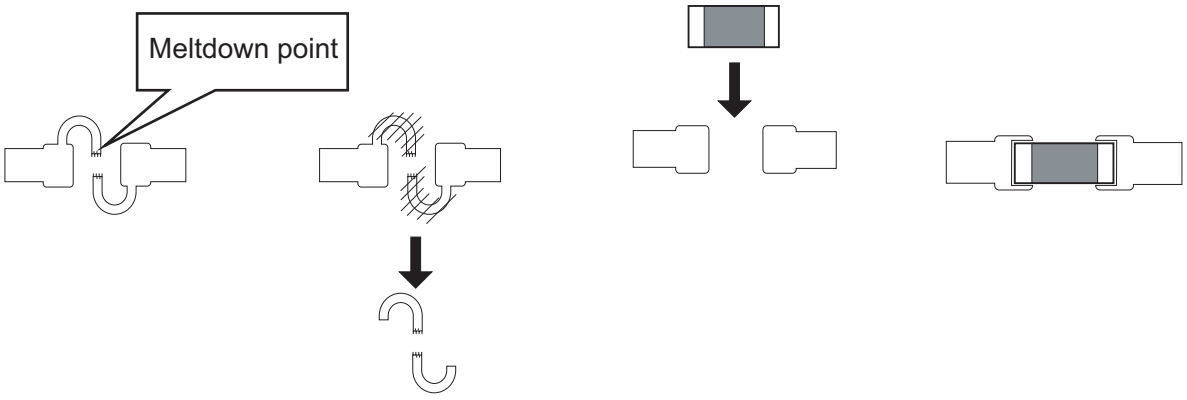
2.1 How to repair a fuse pattern

2.1.1 Purpose of fuse pattern

In order to prevent serious damage on the circuit, fuse pattern is prepared on the GND line of RCA Terminal. This damage may take due to improper part replacement with a external equipment via RCA line.

2.1.2 Repair Procedure

(1) Check the shorted circuit at the meltdown point.
Need to clean up if the shorted circuit or carbonization happen at the fuse pattern.
(2) Add following part on the fuse pattern.
(3) Check output level.



Part Number	Part Name	SPEC
F53-0513-08	PATTERN FUSE	4A

2.1.3 After finished repair

Due to improper part replacement, this meltdown occurs.
Thus please notice following information when the unit is returned to your customer.
Things to be checked before installing the unit.
(1) Check the GND line of external amplifier or other equipment which must connect properly.
(2) Check whether the GND line is not short-circuited with the battery terminal. (do not short-circuit these lines)

2.2 Components description

2.2.1 AUDIO UNIT (X09-9220-10)

Ref. No.	Application / Function	Operation / Condition / Compatibility
D1, D2, D3, D4, D101, D102, D103, D104	Electrostatic protection diode	Protects the circuit against static electricity that enters through the RCA or SP-IN connection.
IC10, IC11	Input buffer OP-AMP	Reduces the noise of electrical components during RCA input
IC1	Input OP-AMP	Isolation AMP for RCA IN or SP IN
D5 - D8, D105 - D108, D203	TMS control diode	Clips the audio signal and lowers the AMP output level when the temperature of the set is high.
IC6	TMS control OP-AMP	
IC12	AMP gain adjustment OP-AMP	+10dB AMP
IC2, IC3	OP-AMP for LPF	fc: 45 kHz
Q3, Q103	Transistor for output ON/OFF control of D-AMP IC	AMP IC output: OFF (when transistor is ON)
IC4, IC5	D-AMP IC	2ch AMP IC for analog input and digital output
D9, D10, D109, D110	Diode for D-AMP IC's overcurrent detection circuit	
D11, D12, D111, D112	Diode for D-AMP IC's charge pump	
Q232, Q233	Transistor for -26dB ATT circuit control	Q233: ON → Q232: ON → ATT ON

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Ref. No.	Application / Function	Operation / Condition / Compatibility
D201	Diode for -26dB ATT circuit and Auto P-Con control	
D233	Diode for -26dB ATT circuit error prevention	Prevents -26dB ATT circuit from turning on when P-CON is Hi
D215	Temperature protection circuit diode	5.1V Zener diode for the temperature protection circuit
D216		
IC7	Temperature protection circuit OP-AMP	
Q203, Q204	Transistor for DC protection and ± 11.5V power protection	Protection when there is abnormal DC output to SP OUT, or when the voltage of the ± 11.5V power supply is abnormal
IC8	OP-AMP for primary overcurrent protection circuit	Protection when the primary current is about 17A or higher. Not latched. Automatic restoration after a few seconds.
D228	Diode for primary overcurrent protection circuit	
D208	Zener diode for BATT overvoltage detection circuit	Powers off when BATT voltage is 17V or higher.
Q215	Transistor for BATT overvoltage detection circuit	
D232	Zener diode for BATT reduced voltage detection circuit	Powers off when BATT voltage is 7.8V or lower.
Q213, Q214	Transistor for BATT power ON/OFF control	
D207	Zener diode for prevention of P-CON circuit error operation	
Q211, Q212	Transistor for latched circuit	Latched circuit for DC protection and power protection
IC9	DC/DC converter control IC	
D206	Diode for prevention of DC/DC IC error operation	
D214, D219	Diode for temperature protection control	Stops DC/DC converter oscillation and stops ± B supply when temperature protection is detected.
Q210	Transistor for temperature protection control	
Q205 - Q207	FET for DC/DC switching	
Q208, Q209	Transistor for gate voltage drawout	
D204, D205	Diode for gate voltage drawout	
D224 - D227	Diode for ± B power rectification	
Q216	Transistor for +11.5V power	
Q217	Transistor for -11.5V power	
D209, D210	Zener diode for ± 11.5V power	
Q219, Q220	Transistor for reducing shock noise	Shuts down the +11.5V power faster than the -11.5V when powering off.
Q226	Transistor for +5V power	
Q227	Transistor for -5V power	
D212, D213	Zener diode for ± 5V power	
Q218	Transistor for -B+12V power	
D211	Zener diode for -B+12V power	
Q229, Q230, Q231	Transistor for use by auxiliary circuit during reduction in the -B+12V power supply	
D202, D229	Diode for use by auxiliary circuit during reduction in the -B+12V power supply	
Q221	Transistor for D-AMP IC output ON/OFF control	Q221 ON → AMP output OFF
Q222		Q222 ON → AMP output OFF
D217	Diode for D-AMP IC output ON/OFF control	

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SECTION 3
DISASSEMBLY

3.1 Removing the Audio unit (See Fig.1 to 4)

(1) Remove the 4 screws **A**, and remove the Bottom plate. (See Fig.1)

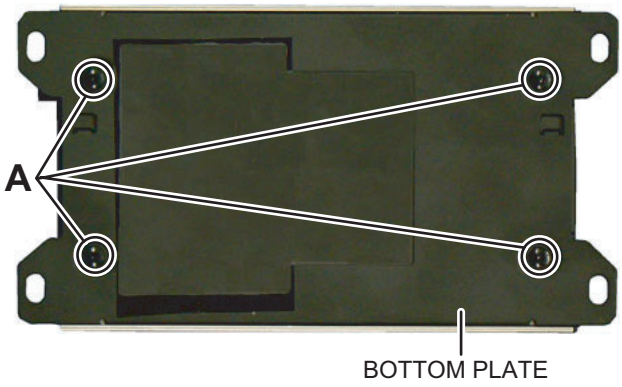

Fig.1

(2) Remove the 4 screw **B,** and remove the Panel(R). (See Fig.2)

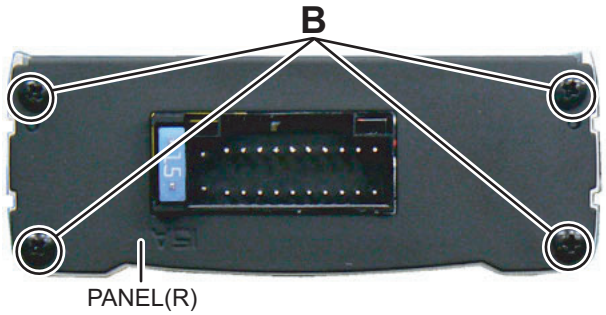

Fig.2

(3) Remove the 4 screw **C,** and remove the Panel(L). (See Fig.3)

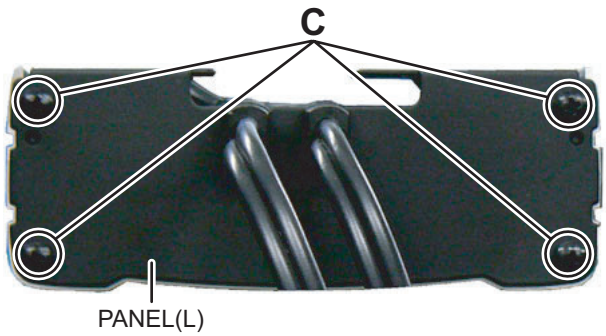

Fig.3

(4) Disconnector the wire from connector CN1. (See Fig.4)

(5) Remove the 4 screws **D**, and remove the Audio unit. (See Fig.4)

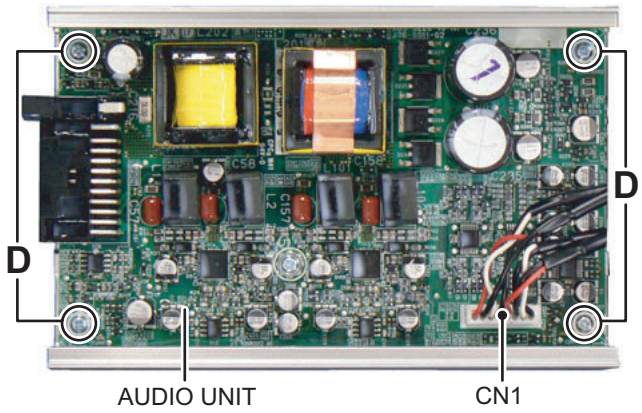

Fig.4

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CE Segment 2967-3, Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525, Japan

(No.WA122<Rev.002>)

Printed in Japan
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KENWOOD

SCHEMATIC DIAGRAMS

POWER AMPLIFIER

KAC-M1804

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■ PRECAUTIONS ON SCHEMATIC DIAGRAMS

- Due to the improvement in performance, some part numbers shown in the circuit diagrams may not agree with those indicated in the Parts List.
- The parts numbers, values and rated voltage etc. in the Schematic Diagrams are for reference only.
- Since the circuit diagrams are standard ones, the circuits and circuit constants may be subject to change for improvement without any notice.

■ PRECAUTIONS ON PARTS LIST

- The parts identified by the ⚠ symbol are critical for safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- There are cases where the actual implemented parts in the sets and the service parts are different. When ordering parts, make sure to refer to the Parts List.

■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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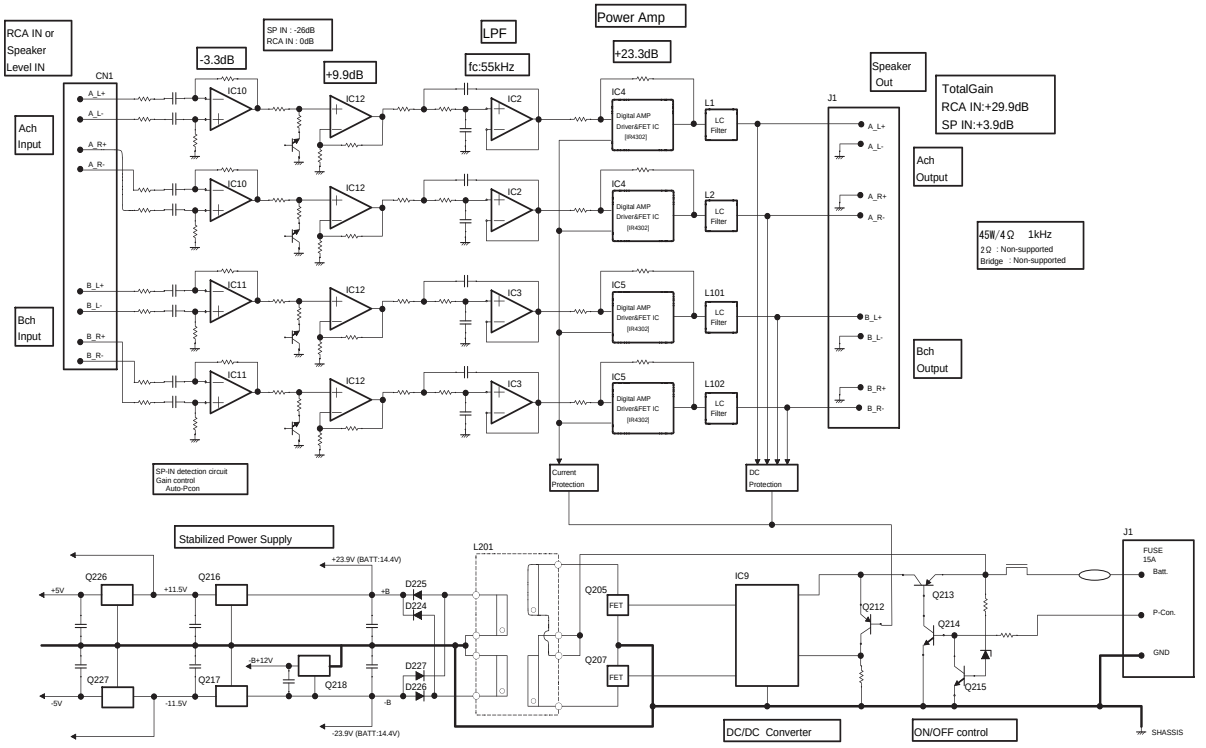
BLOCK DIAGRAM



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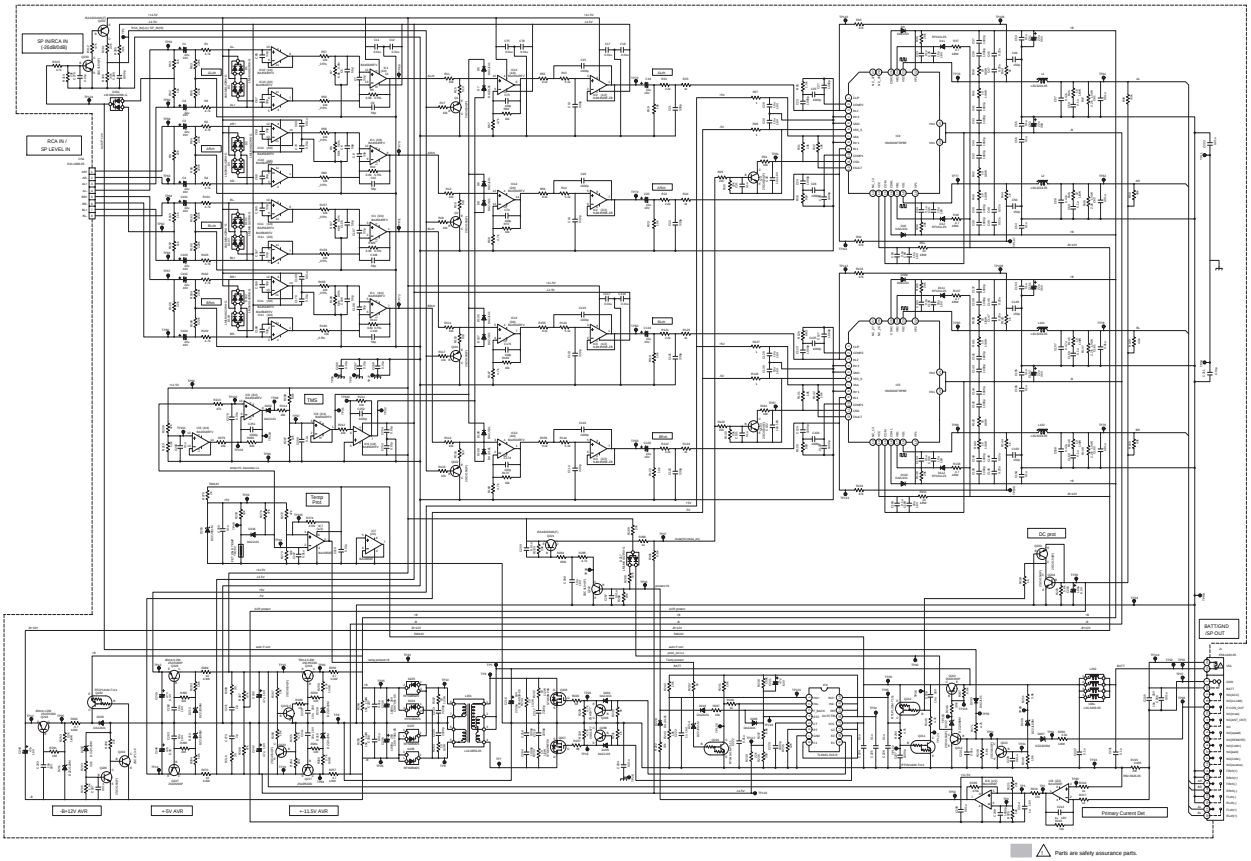
AUDIO UNIT (X09-9220-10)



Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.

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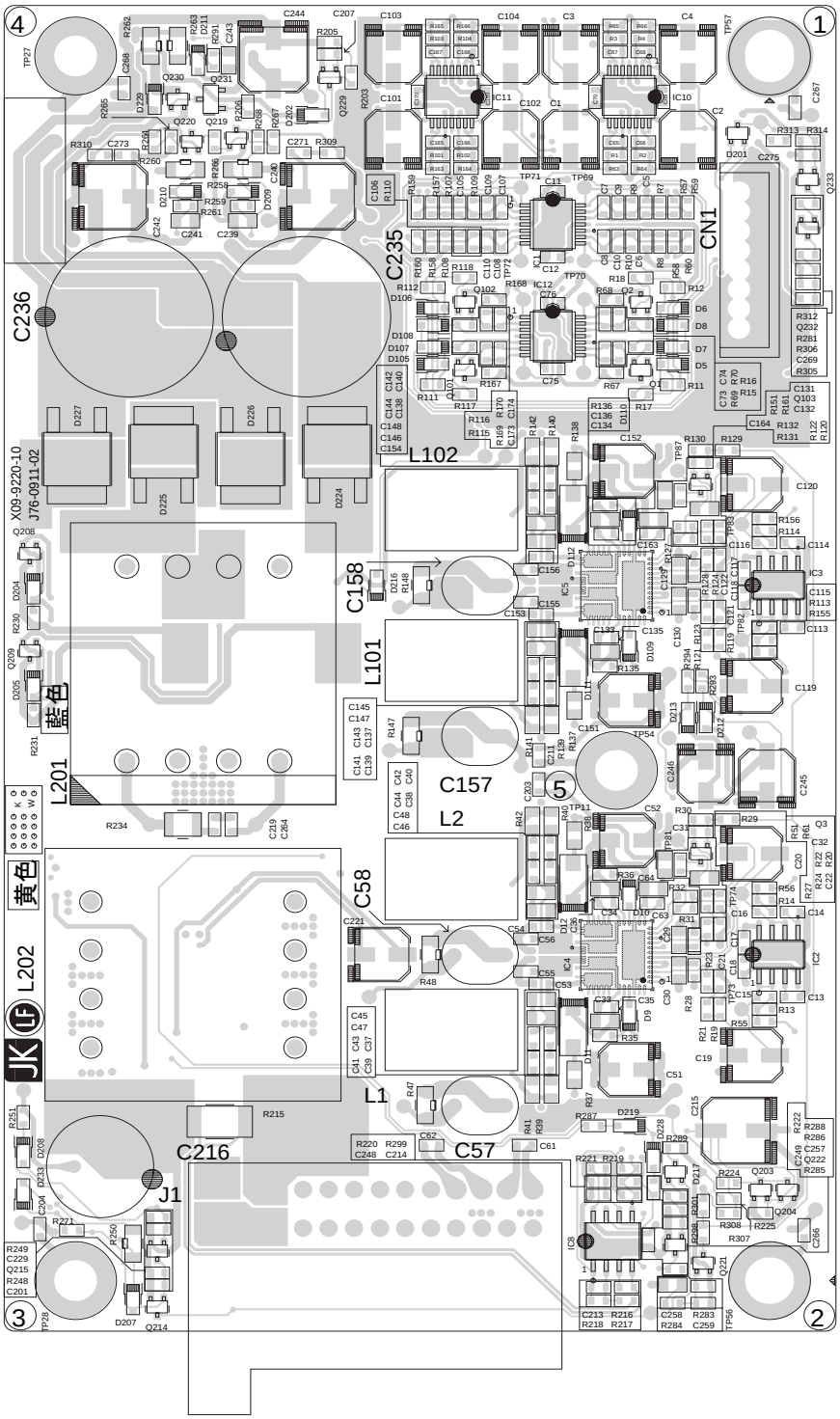
AUDIO UNIT X09-9220-10 (J76-0911-02)



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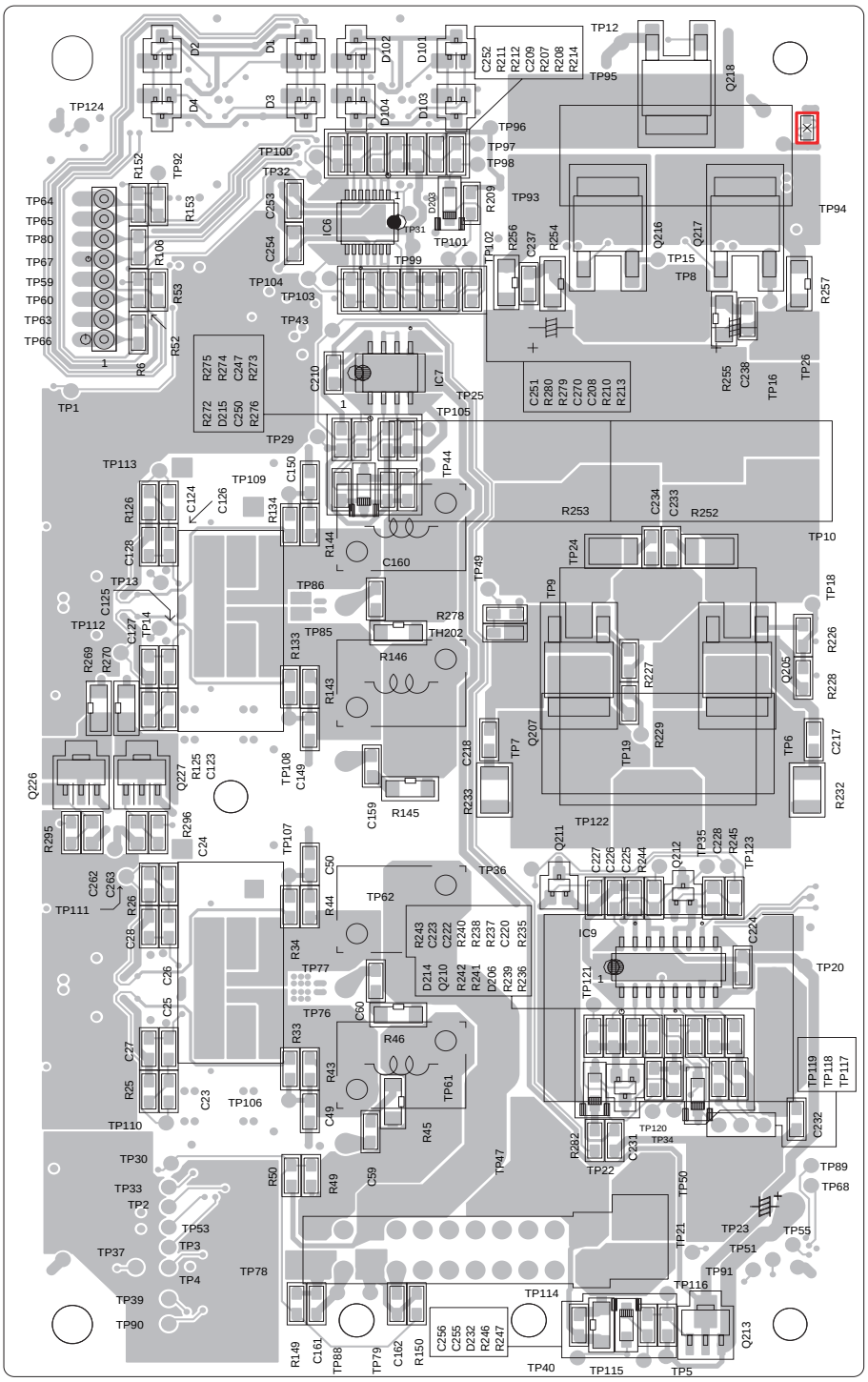
AUDIO UNIT X09-9220-10 (J76-0911-02)

How to repair a fuse pattern.

Refer to "2.1 How to repair a fuse pattern".



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KENWOOD

PARTS LIST

POWER AMPLIFIER

KAC-M1804

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■ DEVIATION TOLERANCE RANGE

DEVIATION TOLERANCE RANGE									
F	G	J	K	M	N	R	H	Z	P
± 1%	± 2%	± 5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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EXPLODED VIEW

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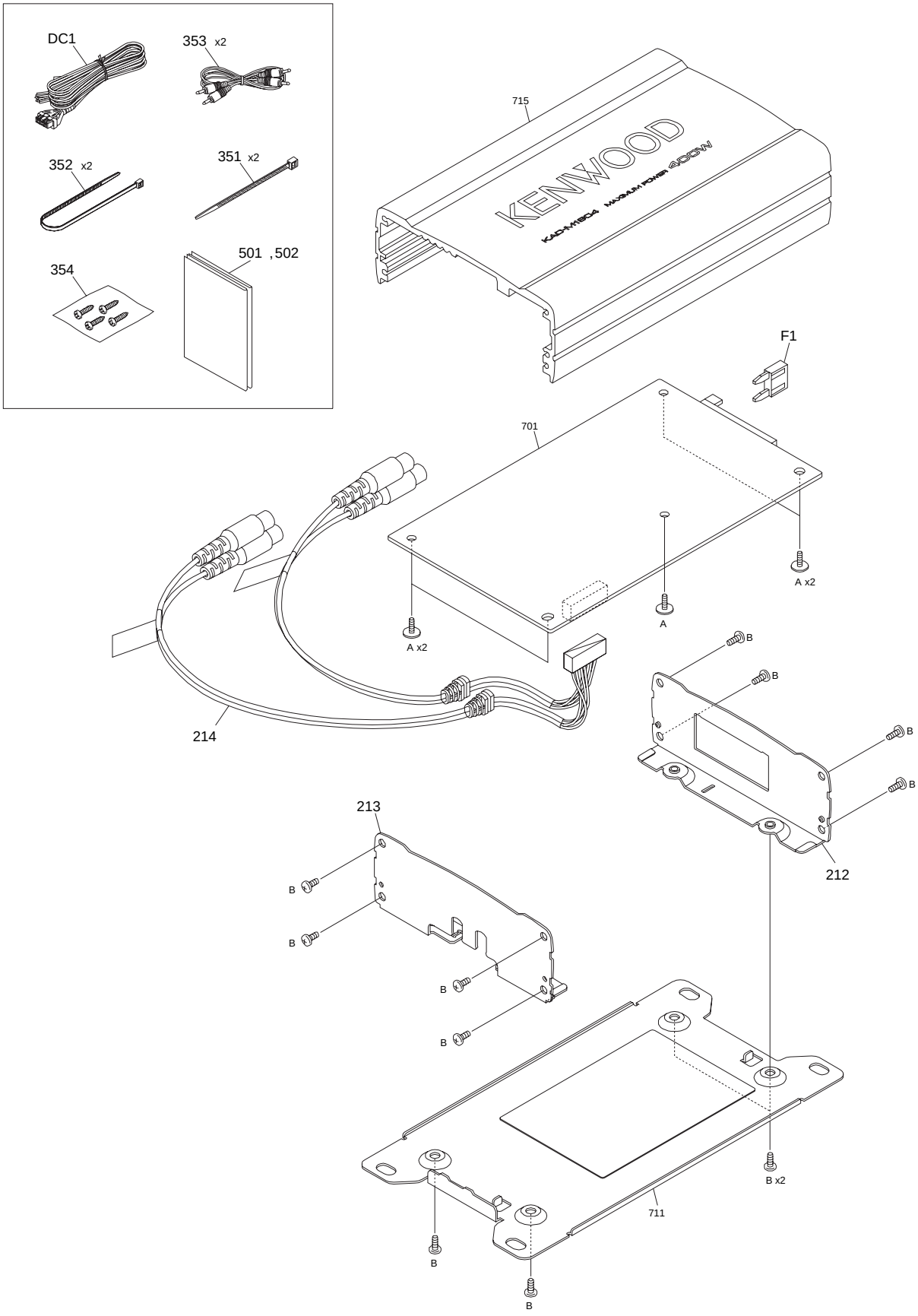

Parts with the exploded numbers larger than 700 are not supplied.

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
EXPLODED VIEW <200>						
⚠	DC1	E30-8358-05	DC CORD		1	
⚠	F1	F52-0024-05	FUSE		1	
	A	N09-6952-05	TAPTITE SCREW		5	
	B	N09-6959-05	TAPTITE SCREW		12	
	212	A64-5574-12	PANEL		1	
	213	A64-5575-12	PANEL		1	
	214	E30-8371-05	CORD W.PINPLUG		1	
	351	J61-0620-05	WIRE BAND		2	
	352	J61-0629-05	WIRE BAND		2	K0
	353	E3A-0002-00	CORD W.PINPLUG		2	K0
	353	E3A-0095-00	CORD W.PINPLUG		2	E1
	354	N99-1840-05	SCREW SET		1	
	501	B64-5170-00	INST.MANUAL	ENG SPA FRE	1	K0
	501	B5A-0670-00	INST.MANUAL	GER ITA POR(EUROPE) DUT	1	E1
	502	B5A-0694-00	INST.MANUAL	ENG FRE SPA	1	E1

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
AUDIO UNIT (X09-9220-10) <X09>						
	IC1	BA4564RFV	ANALOGUE IC		1	
	IC2	NJM4565E-ZB	ANALOGUE IC		1	
	IC3	NJM4565E-ZB	ANALOGUE IC		1	
	IC4	IR4302MTRPBF	MOS IC		1	
	IC5	IR4302MTRPBF	MOS IC		1	
	IC6	BA4564RFV	ANALOGUE IC		1	
	IC7	BA10358F	ANALOGUE IC		1	
	IC8	BA10358F	ANALOGUE IC		1	
	IC9	TL494G-S16-R	ANALOG IC		1	
	IC10	BA4564RFV	ANALOGUE IC		1	
	IC11	BA4564RFV	ANALOGUE IC		1	
	IC12	BA4564RFV	ANALOGUE IC		1	
	Q1	2SC4154(F)	TRANSISTOR		1	
	Q2	2SC4154(F)	TRANSISTOR		1	
	Q3	2SC4154(F)	TRANSISTOR		1	
	Q101	2SC4154(F)	TRANSISTOR		1	
	Q102	2SC4154(F)	TRANSISTOR		1	
	Q103	2SC4154(F)	TRANSISTOR		1	
	Q203	2SC4154(F)	TRANSISTOR		1	
	Q204	2SC4154(F)	TRANSISTOR		1	
	Q205	STD60NF06	FET		1	
	Q207	STD60NF06	FET		1	
	Q208	2SA1577	TRANSISTOR		1	
	Q209	2SA1577	TRANSISTOR		1	
	Q210	RT1N141M-T111	TRANSISTOR		1	
	Q211	RT1N141M-T111	TRANSISTOR		1	
	Q212	RT1P141M-T111	TRANSISTOR		1	
	Q213	2SAR293P	TRANSISTOR		1	
	Q214	2SC4154(F)	TRANSISTOR		1	
	Q215	2SC4154(F)	TRANSISTOR		1	
	Q216	2SCR533D	TRANSISTOR		1	
	Q217	2SAR533D	TRANSISTOR		1	
	Q218	2SCR533D	TRANSISTOR		1	
	Q219	2SC4154(F)	TRANSISTOR		1	
	Q220	2SC4154(F)	TRANSISTOR		1	
	Q221	ISA1602AM1(F)	TRANSISTOR		1	
	Q222	2SC4154(F)	TRANSISTOR		1	
	Q226	2SCR293P	TRANSISTOR		1	
	Q227	2SAR293P	TRANSISTOR		1	
	Q229	2SC4154(F)	TRANSISTOR		1	
	Q230	RT1P141M-T111	TRANSISTOR		1	
	Q231	2SC2713-F	TRANSISTOR		1	
	Q232	ISA1602AM1(F)	TRANSISTOR		1	
	Q233	2SC4154(F)	TRANSISTOR		1	
	D1	LM1MA142WK-G	DIODE		1	
	D2	LM1MA142WK-G	DIODE		1	
	D3	LM1MA142WA-G	DIODE		1	
	D4	LM1MA142WA-G	DIODE		1	
	D5	DA2J101	DIODE		1	
	D6	DA2J101	DIODE		1	
	D7	DA2J101	DIODE		1	
	D8	DA2J101	DIODE		1	
	D9	DA2J101	DIODE		1	
	D10	DA2J101	DIODE		1	
	D11	RF101L2S	DIODE		1	
	D12	RF101L2S	DIODE		1	
	D101	LM1MA142WK-G	DIODE		1	
	D102	LM1MA142WK-G	DIODE		1	
	D103	LM1MA142WA-G	DIODE		1	
	D104	LM1MA142WA-G	DIODE		1	
	D105	DA2J101	DIODE		1	
	D106	DA2J101	DIODE		1	
	D107	DA2J101	DIODE		1	
	D108	DA2J101	DIODE		1	
	D109	DA2J101	DIODE		1	
	D110	DA2J101	DIODE		1	
	D111	RF101L2S	DIODE		1	
	D112	RF101L2S	DIODE		1	
	D201	LM1MA142WK-G	DIODE		1	
	D202	DZ2J120M	Z DIODE		1	
	D203	DA2J101	DIODE		1	
	D204	DA2J101	DIODE		1	
	D205	DA2J101	DIODE		1	
	D206	DA2J101	DIODE		1	
	D207	DZ2J033M	Z DIODE		1	
	D208	DZ2J150M	Z DIODE		1	
	D209	DZ2J120M	Z DIODE		1	
	D210	DZ2J120M	Z DIODE		1	
	D211	DZ2J120M	Z DIODE		1	
	D212	DZ2J056M	Z DIODE		1	
	D213	DZ2J056M	Z DIODE		1	
	D214	DZ2J051M	Z DIODE		1	
	D215	DZ2J051M	Z DIODE		1	
	D216	DA2J101	DIODE		1	
	D217	LM1MA142WA-G	DIODE		1	
	D219	DA2J101	DIODE		1	
	D224	RFN3BM2S	DIODE		1	
	D225	RFN3BM2S	DIODE		1	
	D226	RFN3BM2S	DIODE		1	
	D227	RFN3BM2S	DIODE		1	
	D228	DA2J101	DIODE		1	

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	D229	DA2J101	DIODE		1	
	D232	DZ2J068M	Z DIODE		1	
	D233	DA2J101	DIODE		1	
	C1	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C2	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C3	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C4	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C5	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C6	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C7	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C8	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C9	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C10	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C11	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C12	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C13	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C14	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C15	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C16	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C17	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C18	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C19	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C20	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C21	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C22	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C23	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C24	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C25	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C26	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C27	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C28	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C29	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C30	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C31	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C32	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C33	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C34	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C35	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C36	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C37	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C38	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C39	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C40	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C41	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C42	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C43	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C44	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C45	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C46	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C47	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C48	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C49	CC73GCH1H151J	C CAPACITOR	150pF 50V J	1	
	C50	CC73GCH1H151J	C CAPACITOR	150pF 50V J	1	
	C51	CE32CC1V220M	E CAPACITOR	22uF 35V M	1	
	C52	CE32CC1V220M	E CAPACITOR	22uF 35V M	1	
	C53	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C54	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C55	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C56	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C57	CF92JV1H474J	MPC CAPACITOR	0.47uF 50V J	1	
	C58	CF92JV1H474J	MPC CAPACITOR	0.47uF 50V J	1	
	C59	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C60	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C61	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C62	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C63	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C64	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C65	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C66	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C67	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C68	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C69	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C70	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C73	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	
	C74	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	
	C75	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C76	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C101	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C102	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C103	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C104	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C105	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C106	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C107	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C108	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C109	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C110	CC73GCH1H560J	C CAPACITOR	56pF 50V J	1	
	C113	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C114	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C115	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C116	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C117	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C118	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C119	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C120	CE32CL1C220M	E CAPACITOR	22uF 16V M	1	
	C121	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C122	CC73GCH1H331J	C CAPACITOR	330pF 50V J	1	
	C123	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C124	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C125	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C126	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C127	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C128	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C129	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C130	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C131	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C132	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C133	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C134	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C135	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C136	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C137	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C138	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C139	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C140	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C141	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C142	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C143	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C144	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C145	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C146	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C147	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C148	CK73FBB1H224K	C CAPACITOR	0.22uF 50V K	1	
	C149	CC73GCH1H151J	C CAPACITOR	150pF 50V J	1	
	C150	CC73GCH1H151J	C CAPACITOR	150pF 50V J	1	
	C151	CE32CC1V220M	E CAPACITOR	22uF 35V M	1	
	C152	CE32CC1V220M	E CAPACITOR	22uF 35V M	1	
	C153	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C154	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C155	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C156	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C157	CF92JV1H474J	MPC CAPACITOR	0.47uF 50V J	1	
	C158	CF92JV1H474J	MPC CAPACITOR	0.47uF 50V J	1	
	C159	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C160	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C161	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C162	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C163	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C164	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C165	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C166	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C167	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C168	CC73GCH1H330J	C CAPACITOR	33pF 50V J	1	
	C169	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C170	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C173	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	
	C174	CC73GCH1H101J	C CAPACITOR	100pF 50V J	1	
	C201	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C203	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C204	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C207	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C208	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C209	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C210	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C211	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C213	CK73GB1C105K	C CAPACITOR	1uF 16V K	1	
	C214	CK73GB1C105K	C CAPACITOR	1uF 16V K	1	
	C215	CE32CL0J101M	E CAPACITOR	100uF 6.3V M	1	
	C216	C90-6939-05	E CAPACITOR	2200uF 16V	1	
	C217	CK73GBB1H222K	C CAPACITOR	2200pF 50V K	1	
	C218	CK73GBB1H222K	C CAPACITOR	2200pF 50V K	1	
	C219	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C220	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C221	CE32CL0J470M	E CAPACITOR	47uF 6.3V M	1	
	C222	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C223	CK73GB1C105K	C CAPACITOR	1uF 16V K	1	
	C224	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C225	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C226	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C227	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C228	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C229	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C231	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C232	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C233	CK73GBB1H222K	C CAPACITOR	2200pF 50V K	1	
	C234	CK73GBB1H222K	C CAPACITOR	2200pF 50V K	1	
	C235	C90-7061-05	E CAPACITOR		1	
	C236	C90-7061-05	E CAPACITOR		1	
	C237	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C238	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C239	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C240	CE32CL1C470M	E CAPACITOR	47uF 16V M	1	
	C241	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C242	CE32CL1C470M	E CAPACITOR	47uF 16V M	1	
	C243	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	C244	CE32CL1C470M	E CAPACITOR	47uF 16V M	1	
	C245	CE32CL0J470M	E CAPACITOR	47uF 6.3V M	1	
	C246	CE32CL0J470M	E CAPACITOR	47uF 6.3V M	1	
	C247	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C248	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C249	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C250	CK73GB1H104K	C CAPACITOR	0.1uF 50V K	1	
	C251	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C252	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C253	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C254	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C255	CK73EB1E106K	C CAPACITOR	10uF 25V K	1	
	C256	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C257	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C258	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C259	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C262	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C263	CK73FB1C106K	C CAPACITOR	10uF 16V K	1	
	C264	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C266	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C267	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C268	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C269	CC73GCH1H102J	C CAPACITOR	1000pF 50V J	1	
	C270	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	C271	CC73GCH1H020C	C CAPACITOR	2pF 50V C	1	
	C273	CC73GCH1H020C	C CAPACITOR	2pF 50V C	1	
	C275	CK73GBB1H103K	C CAPACITOR	0.01uF 50V K	1	
	R1	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R2	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R3	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R4	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R6	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R7	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R8	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R9	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R10	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R11	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R12	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R13	RK73GB2A512J	MG RESISTOR	5.1kΩ 1/10W J	1	
	R14	RK73GB2A512J	MG RESISTOR	5.1kΩ 1/10W J	1	
	R15	RK73GB2A511J	MG RESISTOR	510Ω 1/10W J	1	
	R16	RK73GB2A511J	MG RESISTOR	510Ω 1/10W J	1	
	R17	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R18	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R21	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R22	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R23	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R24	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R25	RK73GB2A152J	MG RESISTOR	1.5kΩ 1/10W J	1	
	R26	RK73GB2A911J	MG RESISTOR	910Ω 1/10W J	1	
	R27	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	
	R28	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	
	R29	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R30	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R32	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R33	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R34	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R35	RK73GB2A203J	MG RESISTOR	20kΩ 1/10W J	1	
	R36	RK73GB2A203J	MG RESISTOR	20kΩ 1/10W J	1	
	R37	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R38	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R39	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R40	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R41	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R42	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R43	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R44	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R45	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R46	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R47	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R48	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R49	RK73GB2A433J	MG RESISTOR	43kΩ 1/10W J	1	
	R50	RK73GB2A433J	MG RESISTOR	43kΩ 1/10W J	1	
	R51	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R52	RK73GB2A113J	MG RESISTOR	11kΩ 1/10W J	1	
	R53	RK73GB2A113J	MG RESISTOR	11kΩ 1/10W J	1	
	R55	RK73GB2A912J	MG RESISTOR	9.1kΩ 1/10W J	1	
	R56	RK73GB2A912J	MG RESISTOR	9.1kΩ 1/10W J	1	
	R57	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R58	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R59	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R60	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R61	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R63	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R64	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R65	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R66	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R67	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R68	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R69	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R70	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R101	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R102	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R103	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R104	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R106	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R107	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R108	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R109	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R110	RK73GH2A682D	MG RESISTOR	6.8kΩ 1/10W D	1	
	R111	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R112	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R113	RK73GB2A512J	MG RESISTOR	5.1kΩ 1/10W J	1	
	R114	RK73GB2A512J	MG RESISTOR	5.1kΩ 1/10W J	1	
	R115	RK73GB2A511J	MG RESISTOR	510Ω 1/10W J	1	
	R116	RK73GB2A511J	MG RESISTOR	510Ω 1/10W J	1	
	R117	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R118	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R121	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R122	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R123	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R124	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R125	RK73GB2A681J	MG RESISTOR	680Ω 1/10W J	1	
	R126	RK73GB2A561J	MG RESISTOR	560Ω 1/10W J	1	
	R127	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	
	R128	RK73GB2A1R0J	MG RESISTOR	1Ω 1/10W J	1	
	R129	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R130	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R132	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R133	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R134	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R135	RK73GB2A203J	MG RESISTOR	20kΩ 1/10W J	1	
	R136	RK73GB2A203J	MG RESISTOR	20kΩ 1/10W J	1	
	R137	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R138	RK73FB2B4R7J	MG RESISTOR	4.7Ω 1/8W J	1	
	R139	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R140	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R141	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R142	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R143	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R144	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R145	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R146	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R147	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R148	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R149	RK73GB2A433J	MG RESISTOR	43kΩ 1/10W J	1	
	R150	RK73GB2A433J	MG RESISTOR	43kΩ 1/10W J	1	
	R151	RK73FB2B100J	MG RESISTOR	10Ω 1/8W J	1	
	R152	RK73GB2A113J	MG RESISTOR	11kΩ 1/10W J	1	
	R153	RK73GB2A113J	MG RESISTOR	11kΩ 1/10W J	1	
	R155	RK73GB2A912J	MG RESISTOR	9.1kΩ 1/10W J	1	
	R156	RK73GB2A912J	MG RESISTOR	9.1kΩ 1/10W J	1	
	R157	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R158	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R159	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R160	RK73GH2A103D	MG RESISTOR	10kΩ 1/10W D	1	
	R161	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R163	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R164	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R165	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R166	RK73GB2A224J	MG RESISTOR	220kΩ 1/10W J	1	
	R167	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R168	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R169	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R170	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R203	RK73GB2A332J	MG RESISTOR	3.3kΩ 1/10W J	1	
	R205	RK73GB2A152J	MG RESISTOR	1.5kΩ 1/10W J	1	
	R206	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	
	R207	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	
	R208	RK73GB2A683J	MG RESISTOR	68kΩ 1/10W J	1	
	R209	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R210	RK73GB2A133J	MG RESISTOR	13kΩ 1/10W J	1	
	R211	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R212	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R213	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R214	RK73GB2A433J	MG RESISTOR	43kΩ 1/10W J	1	
	R215	R92-5628-05	MP RESISTOR		1	
	R216	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R217	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R218	RK73GB2A513J	MG RESISTOR	51kΩ 1/10W J	1	
	R219	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R220	RK73GB2A123J	MG RESISTOR	12kΩ 1/10W J	1	
	R221	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R222	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R224	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R225	RK73GB2A562J	MG RESISTOR	5.6kΩ 1/10W J	1	
	R226	RK73GB2A680J	MG RESISTOR	68Ω 1/10W J	1	
	R227	RK73GB2A680J	MG RESISTOR	68Ω 1/10W J	1	
	R228	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R229	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R230	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R231	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R232	RK73PB2H100J	MG RESISTOR	10Ω 1/2W J	1	
	R233	RK73PB2H100J	MG RESISTOR	10Ω 1/2W J	1	

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MODEL	MARK	MODEL	MARK
KAC-M1804	K0	KAC-M1804	E1

Safe	Symbol No.	Parts No.	Parts Name	Description	QTY	Local
	R234	RK73PB2H100J	MG RESISTOR	10Ω 1/2W J	1	
	R235	RK73GB2A133J	MG RESISTOR	13kΩ 1/10W J	1	
	R236	RK73GB2A331J	MG RESISTOR	330Ω 1/10W J	1	
	R237	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R238	RK73GB2A154J	MG RESISTOR	150kΩ 1/10W J	1	
	R239	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	R240	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R241	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R242	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R243	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R244	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R245	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R246	RK73GB2A392J	MG RESISTOR	3.9kΩ 1/10W J	1	
	R247	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R248	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R249	RK73GB2A152J	MG RESISTOR	1.5kΩ 1/10W J	1	
	R250	RK73EB2E392J	MG RESISTOR	3.9kΩ 1/4W J	1	
	R251	RK73GB2A392J	MG RESISTOR	3.9kΩ 1/10W J	1	
	R252	RK73PB2H100J	MG RESISTOR	10Ω 1/2W J	1	
	R253	RK73PB2H100J	MG RESISTOR	10Ω 1/2W J	1	
	R254	RK73EB2E153J	MG RESISTOR	15kΩ 1/4W J	1	
	R255	RK73EB2E153J	MG RESISTOR	15kΩ 1/4W J	1	
	R256	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	
	R257	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	
	R258	RK73EB2E272J	MG RESISTOR	2.7kΩ 1/4W J	1	
	R259	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R260	RK73EB2E272J	MG RESISTOR	2.7kΩ 1/4W J	1	
	R261	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R262	RK73EB2E4R7J	MG RESISTOR	4.7Ω 1/4W J	1	
	R263	RK73EB2E222J	MG RESISTOR	2.2kΩ 1/4W J	1	
	R264	RK73GB2A821J	MG RESISTOR	820Ω 1/10W J	1	
	R265	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R266	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R267	RK73GB2A153J	MG RESISTOR	15kΩ 1/10W J	1	
	R268	RK73GB2A100J	MG RESISTOR	10Ω 1/10W J	1	
	R269	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R270	RK73EB2E100J	MG RESISTOR	10Ω 1/4W J	1	
	R271	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R272	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R273	RK73GB2A183J	MG RESISTOR	18kΩ 1/10W J	1	
	R274	RK73GB2A474J	MG RESISTOR	470kΩ 1/10W J	1	
	R275	RK73GB2A202J	MG RESISTOR	2kΩ 1/10W J	1	
	R276	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R278	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R279	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R280	RK73GB2A823J	MG RESISTOR	82kΩ 1/10W J	1	
	R281	RK73GB2A222J	MG RESISTOR	2.2kΩ 1/10W J	1	
	R282	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R283	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	
	R284	RK73GB2A154J	MG RESISTOR	150kΩ 1/10W J	1	
	R285	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R286	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R287	RK73GB2A103J	MG RESISTOR	10kΩ 1/10W J	1	
	R288	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R289	RK73GB2A273J	MG RESISTOR	27kΩ 1/10W J	1	
	R291	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R293	RK73GB2A182J	MG RESISTOR	1.8kΩ 1/10W J	1	
	R294	RK73GB2A182J	MG RESISTOR	1.8kΩ 1/10W J	1	
	R295	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R296	RK73GB2A101J	MG RESISTOR	100Ω 1/10W J	1	
	R298	RK73GB2A102J	MG RESISTOR	1kΩ 1/10W J	1	
	R299	RK73GB2A474J	MG RESISTOR	470kΩ 1/10W J	1	
	R301	RK73GB2A682J	MG RESISTOR	6.8kΩ 1/10W J	1	
	R305	RK73GB2A393J	MG RESISTOR	39kΩ 1/10W J	1	
	R306	RK73GB2A333J	MG RESISTOR	33kΩ 1/10W J	1	
	R307	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R308	RK73GB2A473J	MG RESISTOR	47kΩ 1/10W J	1	
	R309	RK73GB2A300J	MG RESISTOR	30Ω 1/10W J	1	
	R310	RK73GB2A300J	MG RESISTOR	30Ω 1/10W J	1	
	R312	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R313	RK73GB2A472J	MG RESISTOR	4.7kΩ 1/10W J	1	
	R314	RK73GB2A223J	MG RESISTOR	22kΩ 1/10W J	1	
	L1	L33-3224-05	CHOKE COIL		1	
	L2	L33-3224-05	CHOKE COIL		1	
	L101	L33-3224-05	CHOKE COIL		1	
	L102	L33-3224-05	CHOKE COIL		1	
	L201	L19-0856-05	CONVERT TRANS		1	
	L202	L33-3209-05	CHOKE COIL		1	
	CN1	E41-1688-05	PIN ASSY		1	
	J1	E58-1043-05	R.RECEPTACLE		1	
	TH202	NCP18WB473J0S	N THERMISTOR	47kΩ	1	

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