



3538

KENWOOD
HI/FI STEREO COMPONENTS

SERVICE MANUAL

KA-8300
(KA-9800)



STEREO INTEGRATED AMPLIFIER

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Note 1 :

The products are subject to modification in components and circuits in different countries and regions. This is because each products must be used under the best condition.

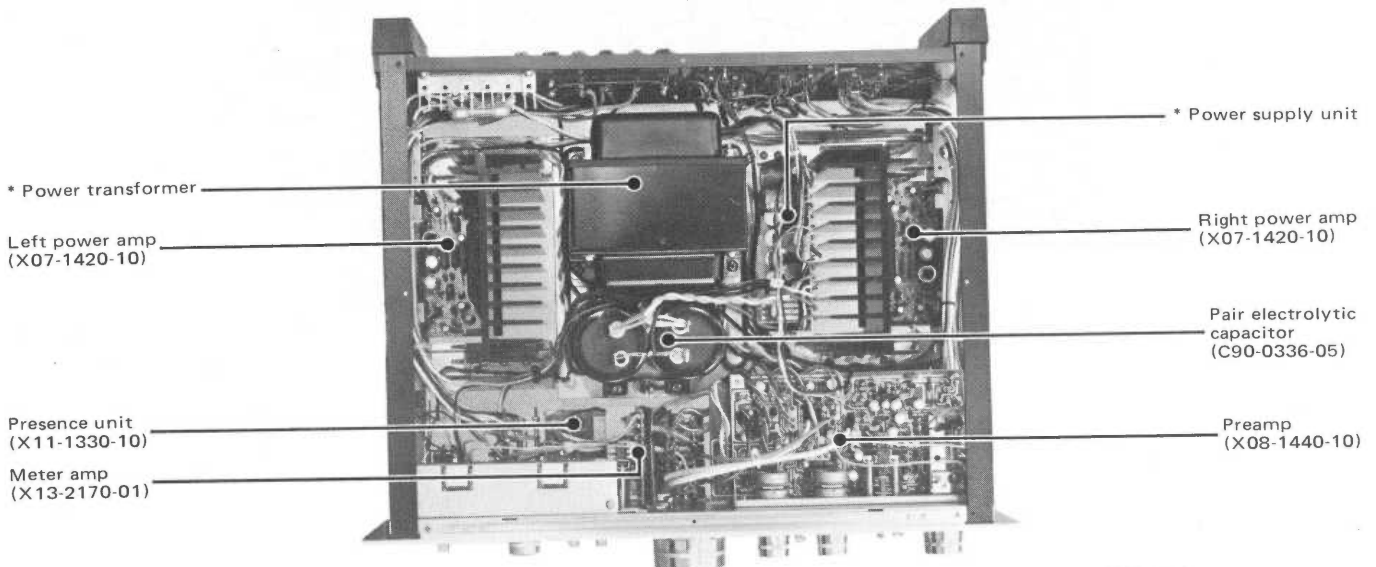
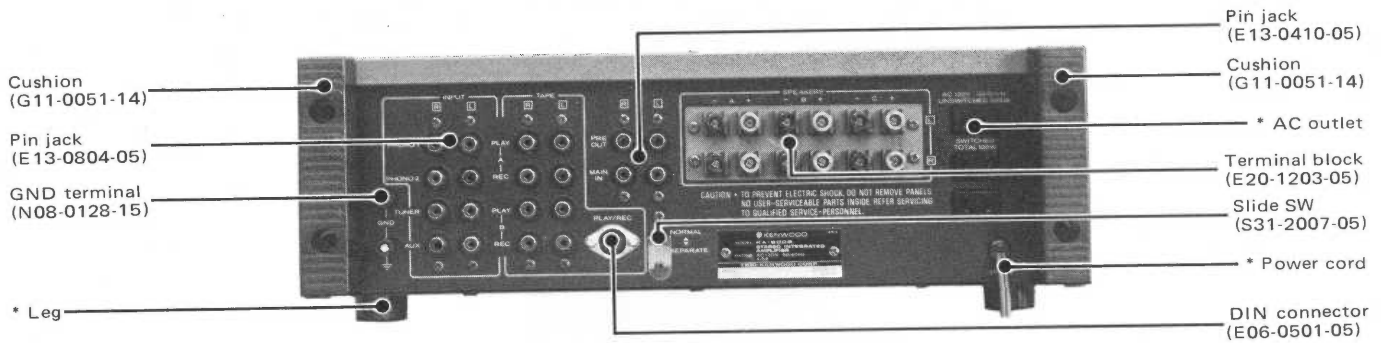
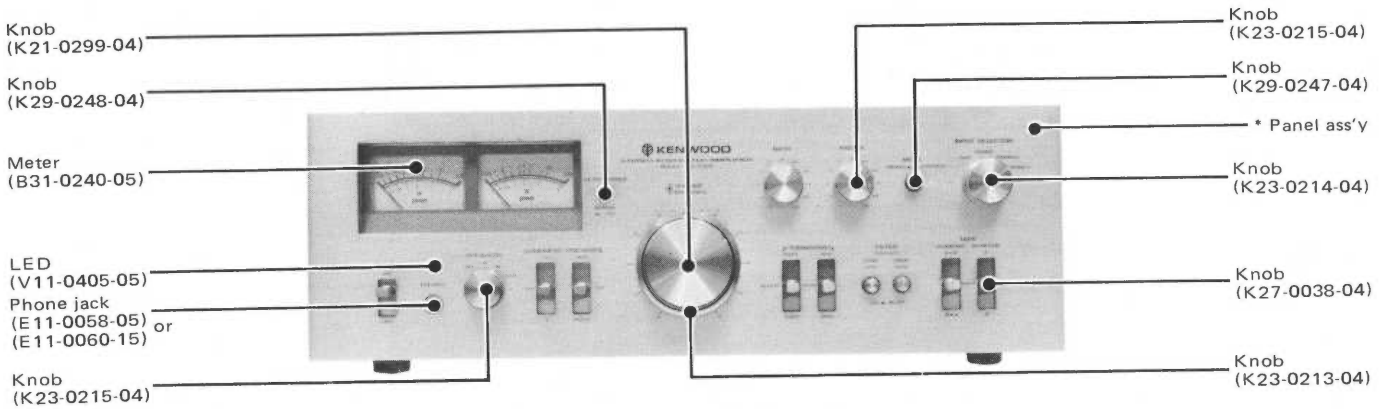
This manual provides information of modification based on the standard in the U.S., for the convenience of ordering associated components and parts.

U.S.A.	K
Canada	P
PX	U
Australia	X
Europe	W
England	T
Scandinavia	L
South Africa	S
Other area	M

Note 2 :

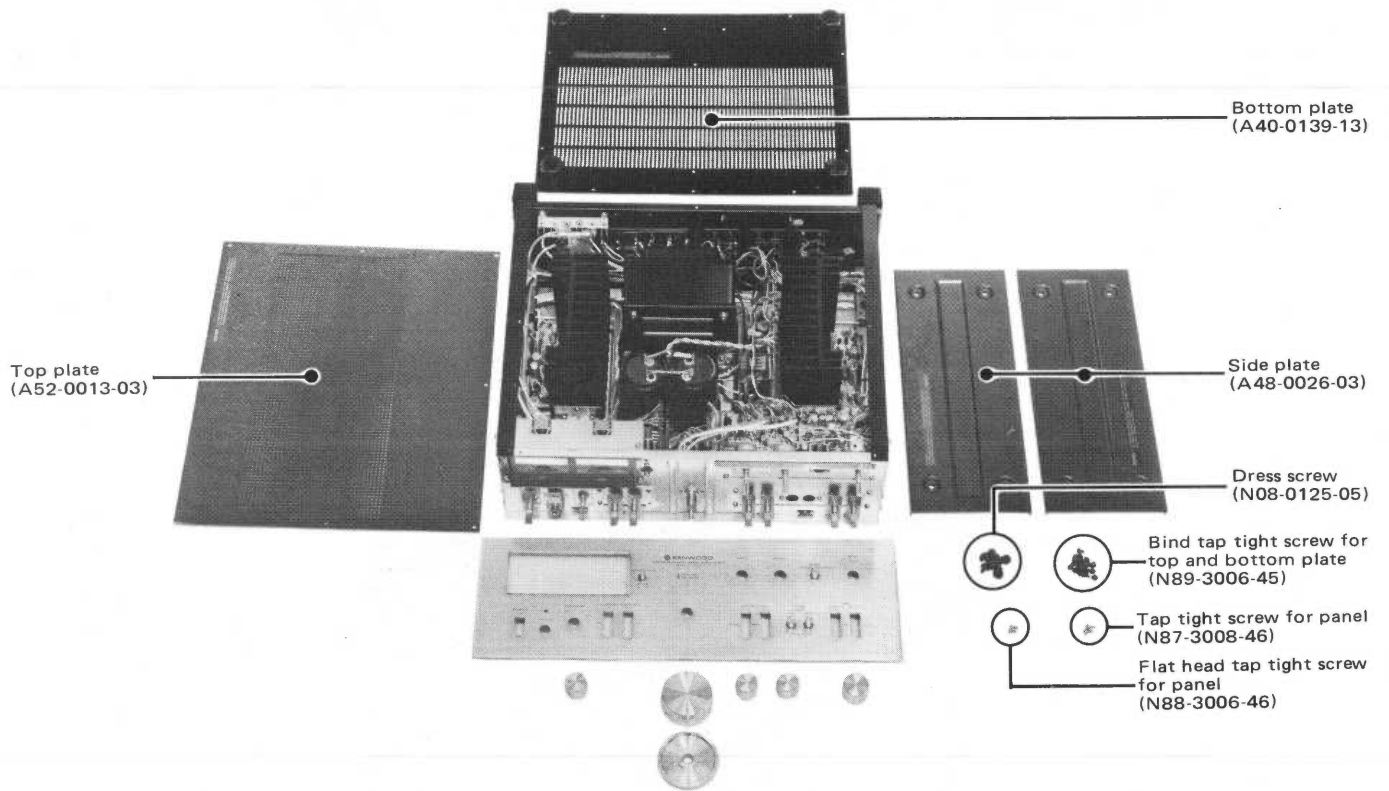
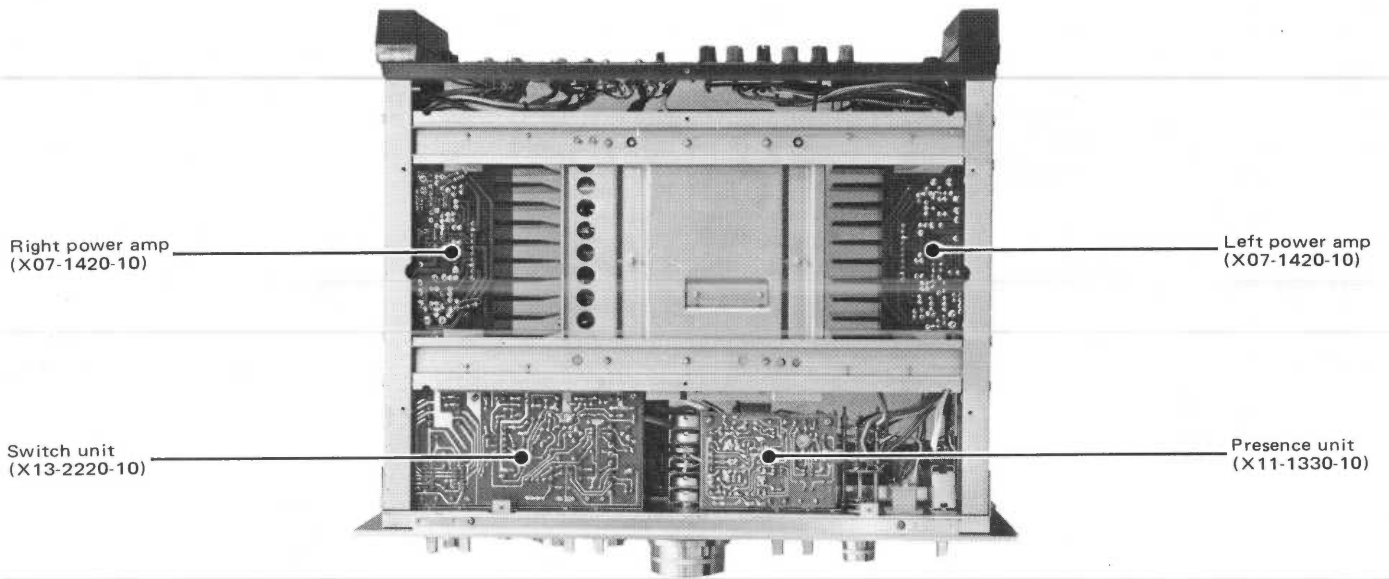
Symbol ✱ and symbol ● in parts list mean the new parts and the parts not being kept in stock, respectively.

EXTERNAL & INTERNAL VIEW

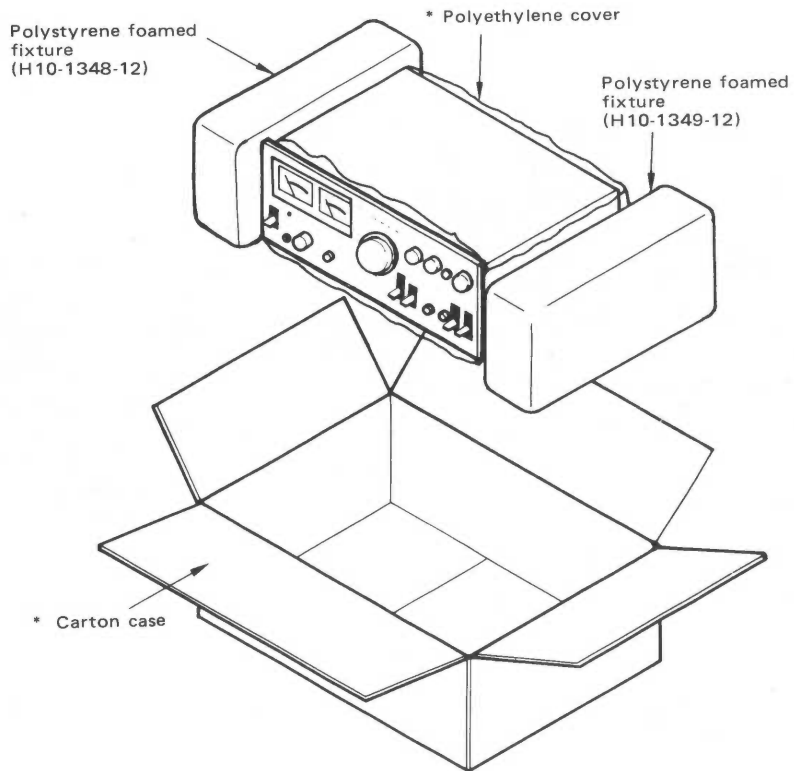
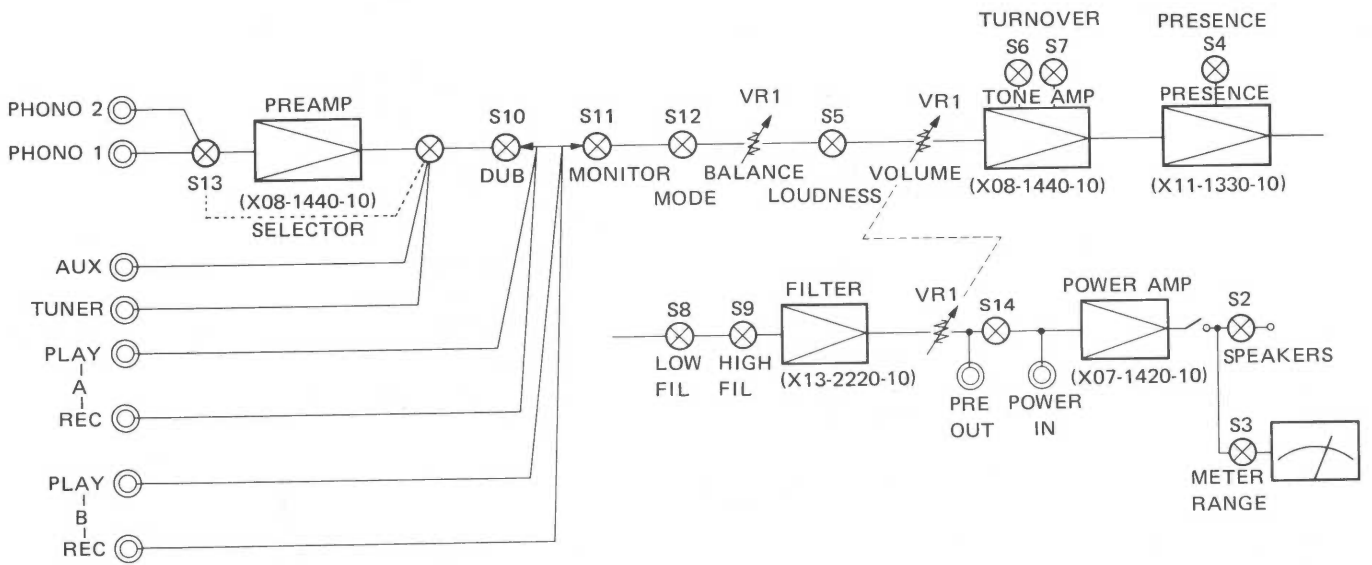


* Refer to "destinations" parts list".

INTERNAL VIEW/DISASSEMBLY



BLOCK DIAGRAM/PACKING



* Refer to Destinaitons' parts list.

CIRCUIT DESCRIPTIONS/ADJUSTMENTS/TROUBLESHOOTING

PREAMP SECTION

The preamp circuit is composed of a differential amp, emitter follower and a class A amp. The total gain of this circuit is 36 dB (63 times at 1 kHz). The circuit operates with a dual 28 volts which assures the wide dynamic range and a low distortion.

POWER AMP

Power amp consists of a differential amp, driver amp, bias circuit, constant current circuit, ASO protection circuit, and complementary emitter follower output amp. The first stage, Qe1 and 2 are a differential amp and the subsequent stage, Qe3 is a class A amp. Qe4 acts as a constant current circuit and gives the constant current to ICe1. ASO protection circuit, which protects a power transistor for excessive current, complementary transistor, and power transistor are packed in the IC, which is called Darlington power pack.

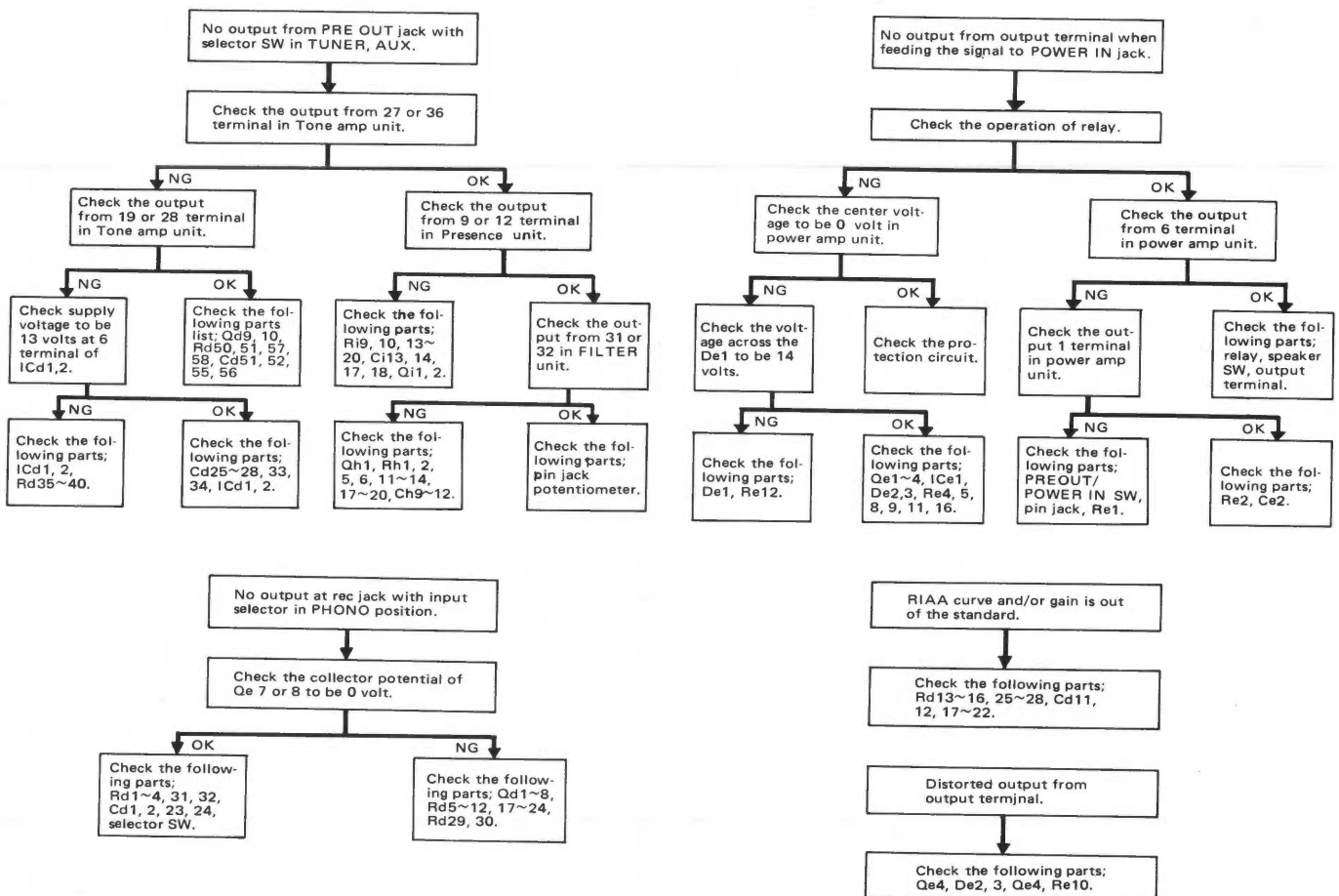
TONE AMP

Tone amp circuit employs IC as buffer amp and NPN transistor as tone control amp.

METER RANGE ADJUSTMENT

Push the meter range pushbutton switch to 3W position. Connect the dummy load to the output terminal instead of the loudspeaker. Also connect the audio generator to AUX jack of the amplifier. Then turn VOLUME until the output power is 3W (4.9V/8Ω).

Turn the PC trimmer potentiometer VRq1, 2 until the meter indicates 3W.



DESTINATIONS' PARTS LIST

Symbol ☆ : new parts, Symbol ● : the parts not being kept in stock. KA-9800 is the product for "AUDIO CLUB"

Ref. No.	U.S.A. (K)	Canada (P)	PX (U)	Australia (X)	Europe (W)	Scandinavia (L)	England (T)	KA-9800 M2	Other Area (M)	Description
—	A20-0971-12	A20-0971-12	A20-0971-12	A20-0971-12	A20-0971-12	A20-0971-12	A20-0992-12	A20-1080-02	A20-0971-12	Panel ass'y ☆
—	A20-0972-02	A20-0972-02	A20-0972-02	A20-0972-02	A20-0972-02	A20-0972-02	A20-0993-02	A20-1081-02	A20-0972-02	Panel ● ☆
—	A23-0594-02	A23-0594-02	A23-0595-02	A23-0595-02	A23-0596-02	A23-0597-02	A23-0597-02	A23-0595-02	A23-0595-02	Rear panel ● ☆
—	B40-1274-04	B40-1274-04	B40-1418-04	B40-1275-04	B40-1277-04	B40-1278-04	B40-1276-04	B40-1414-04	B40-1275-04	Model name plate ● ☆
—	B42-0611-04	—	—	—	B42-0024-04	—	—	—	—	Caution sticker x 4 ● ☆
—	B42-0552-04	B42-0552-04	—	—	—	—	—	—	—	SEV sticker ● ☆
—	B46-0056-00	B46-0055-10	B46-0050-00	—	—	—	—	—	—	Fuse sticker ● ☆
—	—	—	B46-0051-00	—	—	—	—	—	—	Warranty card ● ☆
—	B50-1404-00	B50-1404-00	B50-1404-00	B50-1404-00	B50-1404-00	B50-1404-00	B50-1405-00	B50-1544-00	B50-1404-00	Instruction manual ☆
—	—	—	B58-0139-00	B58-0003-00	B58-0156-00	—	—	B58-0003-00	B58-0003-00	Power supply caution card ●
—	—	—	B58-0144-00	B58-0101-00	B58-0157-00	—	—	B58-0101-00	B58-0101-00	Power voltage selector caution card ●
—	B58-0043-00	B58-0043-00	B58-0146-00	B58-0108-00	B58-0108-00	—	—	B58-0108-00	B58-0108-00	Carton case caution card ●
—	—	—	—	—	—	—	B58-0214-04	—	—	Spare fuse caution card ●
—	—	—	B59-0018-00	—	—	—	—	—	—	Power cord caution card ●
—	—	—	—	—	—	—	—	—	—	Power cord caution card ●
—	—	—	—	—	—	—	—	—	—	KENWOOD service stations' list
C3.4	C91-0001-05	C91-0001-05	CK45E3D103PMU	CK45E3D103PMU	CK45E3D103PMU x 3	CK45E3D103PMU x 3	CK45E3D103PMU	CK45E3D103PMU	CK45E3D103PMU	Capacitor 0.01μF
—	D32-0075-04	D32-0075-04	D32-0075-04x2	D32-0075-04x2	D32-0075-04x2	D32-0075-04	D32-0075-04	D32-0075-04x2	D32-0075-04x2	Switch stopper (power voltage selector or pre out/power in)
—	E08-0225-05	E08-0225-05	E08-0225-05	E08-0225-05	—	—	—	E08-0225-05	E08-0225-05	AC outlet x 3
—	E30-0181-05	E30-0181-05	E30-0515-05 ☆	E30-0185-05	E30-0580-05	E30-0292-05	040-0304-05	E30-0515-05 ☆	E30-0515-05 ☆	Power cord
—	E90-0037-05	E90-0027-05	—	—	—	—	—	—	—	Fuse cap x 2
—	F05-6025-05	F05-6025-05	F05-6021-05	F05-6021-05	F05-6321-05	—	—	F05-6021-05	F05-6021-05	Fuse (6A)
—	—	—	F05-3022-05	F05-3022-05	F05-3121-05	F05-3121-05	F05-3121-05	F05-3022-05	F05-3022-05	Fuse (3A)
—	—	—	F09-0033-05	F09-0033-05	F09-0033-05x3	F09-0033-05x3	F09-0033-05	F09-0033-05	F09-0033-05	Capacitor cap x 2
—	H01-1439-04	H01-1551-04	H01-1440-04	H01-1439-04	H01-1440-04	H01-1440-04	H01-1441-04	H01-1594-04	H01-1439-04	Carton case ☆
—	—	H03-0515-04	—	—	H03-0454-04	H03-0454-04	H03-0455-04	—	—	Carton case ☆
—	H20-0394-04	H20-0394-04	H20-0394-04	H20-0394-04	H20-0394-04	H20-0394-04	H20-0394-04	H20-0394-04	H20-0416-04	Polyethylene cover
—	—	—	H25-0029-04	H25-0029-04	H25-0029-04	—	H25-0029-04	H25-0029-04	H25-0029-04	Polyethylene bag
—	—	—	—	—	—	—	—	—	H40-0004-04	Anti-rust paper
—	J02-0073-04	J02-0049-14	J02-0049-14	J02-0049-14	J20-0049-14	J20-0049-14	J20-0049-14	J20-0049-14	J20-0049-14	Leg x 4
—	—	—	J13-0033-15	J13-0033-15	J13-0031-05	J13-0031-05	J13-0031-05	J13-0033-15	J13-0033-15	Fuse holder
—	J41-0034-05	J41-0034-05	J41-0033-05	J41-0024-15	J41-0033-05	J41-0033-05	J41-0024-15	J41-0033-05	J41-0033-05	Power cord bushing
—	L04-0094-05	L04-0094-05	L30-0112-05	L03-0112-05	L09-0156-05	L09-0157-05	L09-0156-05	L03-0112-05	L03-0112-05	Power transformer ☆
S1	S59-2033-05	S59-2033-05	S59-2032-05	S59-2032-05	S59-2034-05	S59-2034-05	S59-2034-05	S59-2032-05	S59-2032-05	Lever switch (Power) ☆
—	—	—	S31-2001-05	S31-2001-05	S31-2001-05	—	—	S31-2001-05	S31-2001-05	Slide switch (power voltage selector)
—	X00-1650-11	X00-1650-11	X00-1650-21	X00-1651-21	X00-1650-61	X00-1650-61	X00-1650-61	X00-1650-21	X00-1650-21	Power supply unit ☆