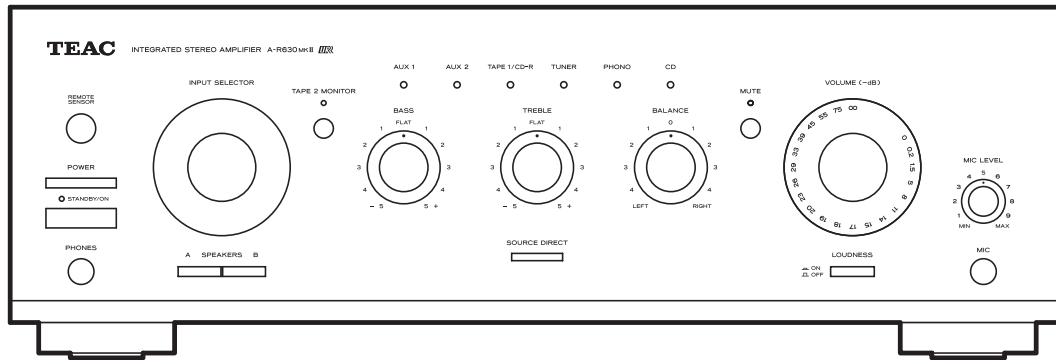


TEAC



SERVICE MANUAL

A-R630mk2/A-R650mk2

INTEGRATED STEREO AMPLIFIER

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INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

1. Specifications

仕様

● CAUTION for products that use replaceable lithium batteries:

There is danger of explosion if a battery is replaced with an incorrect type of battery.

Replace only with the same or equivalent type

A-R630mk2

Amplifier Section

Continuous Power Output	
1 kHz, 4 Ω, 0.5%	: 90 W + 90 W RMS
1 kHz, 8 Ω, 0.5%	: 60 W + 60 W
Total Harmonic Distortion	: 0.02% (1 kHz, 8 Ω, 45 W)
Output connections	
Speakers A or B	: 4–16 Ω load
Speakers A and B	: 8–16 Ω load
Input Sensitivity/Impedance	
PHONO	: 2.8 mV/47 kΩ
LINE*	: 180 mV/47 kΩ
MIC	: 1.4 mV/22 kΩ
Signal-to-Noise Ratio (IHF-A)	
PHONO	: 65 dB
LINE*	: 90 dB
Output Level/Impedance	
TAPE	: 150 mV/3.3 kΩ
Frequency Response	
PHONO	: 20 to 20,000 Hz, ±1 dB (RIAA)
LINE*	: 5 to 80,000 Hz (SOURCE DIRECT, 1 W)
Tone Control	
BASS	: ±10 dB at 100 Hz
TREBLE	: ±10 dB at 10 kHz
Mute	: –20 dB

General

Power Requirements	: AC 230 V, 50 Hz
Power Consumption	: 200 W
Standby	: 0.5 W
Dimensions (W × H × D)	: 435 × 142 × 355 mm (17 1/4" × 5 5/8" × 14)
Weight (net)	: 8.1 kg (17 7/8 lb)
Operating temperature	: +5°C to +35°C

* LINE means TUNER, CD, AUX1, AUX2, TAPE1/CD-R, TAPE2.

A-R650mk2

Amplifier Section

Continuous Power Output	:	
1 kHz, 4 Ω, 0.5%	:	120 W + 120 W RMS
1 kHz, 8 Ω, 0.5%	:	90 W + 90 W
Total Harmonic Distortion	:	0.02% (1 kHz, 8 Ω, 45 W)
Output connections		
Speakers A or B	:	4–16 Ω load
Speakers A and B	:	8–16 Ω load
Input Sensitivity/Impedance		
PHONO	:	2.8 mV/47 kΩ
LINE*	:	180 mV/47 kΩ
MIC	:	1.4 mV/22 kΩ
Signal-to-Noise Ratio (IHF-A)		
PHONO	:	65 dB
LINE*	:	90 dB
Output Level/Impedance		
TAPE	:	150 mV/3.3 kΩ
Frequency Response		
PHONO	:	20 to 20,000 Hz, ±1 dB (RIAA)
LINE*	:	5 to 80,000 Hz (SOURCE DIRECT, 1 W)
Tone Control		
BASS	:	±10 dB at 100 Hz
TREBLE	:	±10 dB at 10 kHz
Mute	:	–20 dB

General

Power Requirements	:	AC 230 V, 50 Hz
Power Consumption	:	300 W
Standby	:	0.5 W
Dimensions (W × H × D)	:	435 × 142 × 355 mm (17 1/4" × 5 5/8" × 14)
Weight (net)	:	9.2 kg (20 3/8 lb)
Operating temperature	:	+5°C to +35°C

* LINE means TUNER, CD, AUX1, AUX2, TAPE1/CD-R, TAPE2.

2. ErP Caution

ErP 注意

Caution

This unit has an automatic power saving function.

When the unit is shipped new, the automatic power saving function is on, so it will automatically enter standby mode if none of the following controls on the main unit (or any remote control buttons) are used for the set amount of time (default setting: 8 hours).

- INPUT SELECTOR
- TAPE 2 MONITOR button
- MUTE button
- SOURCE DIRECT button

Checking the setting

When the unit is on, press the TAPE 2 MONITOR button for at least 5 seconds. This will cause an indicator to blink according to the setting.

This table shows the relationship between the setting and the blinking indicator.

Indicator	Setting time
AUX1	1 hour
AUX2	2 hours
TAPE1/CD-R	3 hours
TUNER	4 hours
PHONO	6 hours
CD	8 hours
TAPE 2 MONITOR	Automatic power saving off

To end setting confirmation mode, press the TAPE 2 MONITOR button for at least 3 seconds.

CAUTION

No sound will be output from speakers or headphones while this setting is being checked.

Changing the setting

1. When the power is off, press the POWER button while pressing and holding the TAPE 2 MONITOR button to turn the unit on.
The CD indicator will blink.
 - The setting is always set to 8 hours when the unit is turned on.
2. Press the TAPE 2 MONITOR button to change the setting.
The setting and corresponding indicator change in the following order each time you press the TAPE 2 MONITOR button.
→ 8 hours (CD) → automatic power saving off (TAPE 2 MONITOR) → 1 hour (AUX 1) → 2 hours (AUX 2) → 3 hours (TAPE 1/CD-R) → 4 hours (TUNER) → 6 hours (PHONO) →
3. Press the STANDBY/ON button to complete the setting.

CAUTION

If the POWER switch is turned off or the power supply to the unit is otherwise interrupted, the setting will be restored to its default value of eight hours.

ご注意

本製品には、オートパワーセーブ機能があります。

製品出荷時、オートパワーセーブ機能がオンに設定されており、本機にある以下のいずれのボタンやセレクタを設定時間使用していないと (初期設定: 8時間)、自動的にスタンバイ状態になります。

- INPUT SELECTOR ダイアル
- TAPE 2 MONITOR ボタン
- MUTE ボタン
- SOURCE DIRECT ボタン

設定の確認方法

電源がオンの状態で、TAPE 2 MONITOR ボタンを5秒以上押しすと、設定に対応したインジケータが点滅します。

設定と点滅するインジケータの関係は、以下の表の通りです。

インジケータ	設定時間
AUX1	1時間
AUX2	2時間
TAPE1/CD-R	時間
TUNER	4時間
PHONO	6時間
CD	8時間
TAPE 2 MONITOR	オートパワーセーブ機能オフ

設定確認モードを終了するには、再度TAPE 2 MONITOR ボタンを3秒以上押してください。

注意

設定確認中は、スピーカー、ヘッドホンから音声が出ません。

設定の変更方法

1. 電源がオフの状態で、TAPE2 MONITOR ボタンを押しながら、POWER ボタンを押して電源をオンにする。
CDインジケータが点滅します。
 - 電源オン時は、常に8時間に設定されています。
2. TAPE2 MONITOR ボタンを押して設定を変更する。
TAPE2 MONITOR ボタンを押す毎に以下の順で設定および該当インジケータが変わります。
→ 8時間(CD) → オートパワーセーブ機能オフ(TAPE 2MONITOR) → 1時間 (AUX1) → 2時間(AUX2) → 3時間 (TAPE1/CD-R) → 4時間(TUNER) → 6時間(PHONO) →
3. STANDBY/ON ボタンを押して設定を終了する。

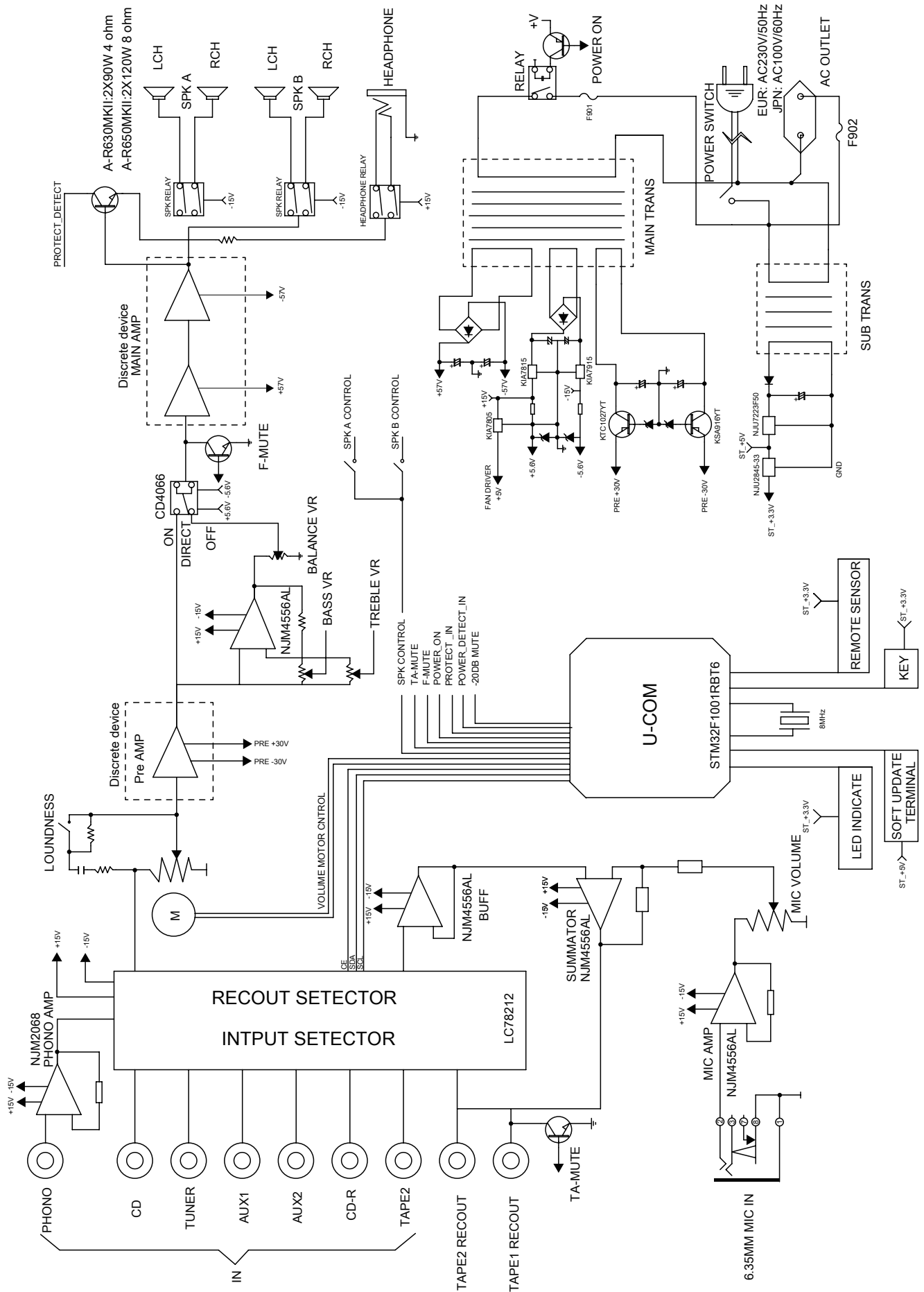
注意

POWER ボタンをオフにするか本機への電源供給が遮断されると、初期設定値(8時間)にリセットされます。

3. Block Diagram (Power)

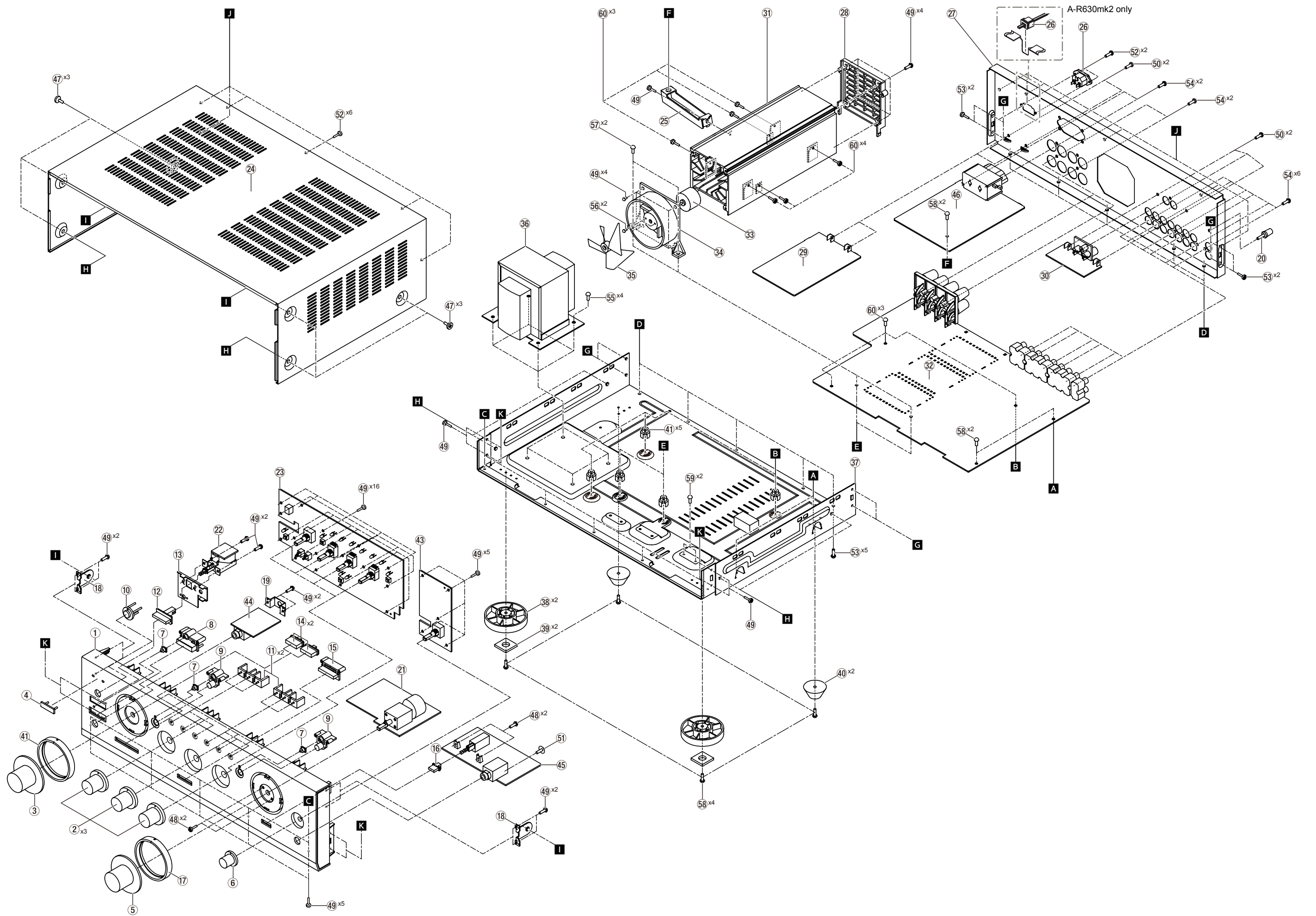
ブロックダイアグラム (電源部)

A-R630/650MKII BLOCK DIAGRAM



4. Exploded Views and Parts List

分解図とパーツリスト



CAUTION Part with numbers in parentheses () cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List A-R630mk2/A-R650mk2 (for EUR)**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
1	CGW4A245TB38	PANEL,FRONT	1	
2	CBN2A052Y	KNOB,ROTARY	3	
3	KGX1A216YA	VOLUME CAP ASS'Y(A)	1	
4	CGB1A165H8	BADGE,TEAC	1	
5	KGX1A216VA	VOLUME CAP ASS'Y(A)	1	
6	CBN1A079YK66	KNOB,ROTARY	1	
7	CGL1A109	INDICATOR,FUNCTION	3	
8	CBT1A604	KNOB,POWER	1	
9	CBT1A603	KNOB,TACT	2	
10	CGR2A154	ORNAMENT,REMOTE	1	
11	CGL1A162	INDICATOR,FUNCTION	2	
12	CBC1A095	KNOB,LOUDNESS	1	
13	CMD1A363-v1	BRACKET,POWER	1	
14	CMD1A363-v2	KNOB,SPEAKER	2	
15	CMD1A363-v3	KNOB,DIRECT	1	
16	CMD1A363-v4	KNOB,LOUDNESS(PUSH)	1	
17	CMD1A363-v5	HOUSING,VOLUME	1	
18	CMD1A363-v6	BRACKET,TOP	2	
19	CMD1A363-v7	BRACKET,VOLUME	1	
20	CMD1A363-v8	TERMINAL,GROUND	1	
21	COP12657B	VOL' PCB	1	See "PREAMP PCB (GATHER)" on page 14 .
22	COP12655B	POWER PCB(MOMS)	1	See "FRONT PCB (GATHER)" on page 14 .
*	COP12655C	POWER PCB(MOMS)	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
23	COP12655B	SUB PCB	1	See "FRONT PCB (GATHER)" on page 14 .
*	COP12655C	SUB PCB	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
24	CKC3A085B25	CABINET,TOP	1	
25	CMD2A665	BRACKET	1	
26	CJA2B054Z	AC, CORD	1	⚠
*	CJA2B043ZA	AC, CORD	1	⚠ * : Only A-R630mk2
27	CKF1A424Y	PANEL,REAR	1	
*	CKF3A424X	PANEL,REAR	1	* : Only A-R630mk2
28	CGP2A015	HEAT SINK COVER	1	
29	COP12655B	SPEAKER PCB	1	See "FRONT PCB (GATHER)" on page 14 .
*	COP12655C	SPEAKER PCB	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
30	COP12657B	REMOTE PCB	1	See "PREAMP PCB (GATHER)" on page 14 .
31	CMY1A358-V2	HEAT SINK	1	
32	COP12656B	MAIN PCB A-R650	1	See "MAIN PCB" on page 14 .
*	COP12656C	MAIN PCB A-R650	1	* : Only A-R630mk2. See "MAIN PCB" on page 14 .
33	CDMCCM05045R18	MOTOR	1	
34	CGP3A016	FAN FRAME	1	
35	CDD1A013	FAN	1	

CAUTION Part with numbers in parentheses () cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List A-R630mk2/A-R650mk2 (for EUR)**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
36	CLT5V056ZE	POWER TRANS	1	⚠
*	CLT5U044ZE	POWER TRANS	1	⚠ * : Only A-R630mk2
37	CUA5A148	BOTTOM CHASSIS	1	
38	CKL2A042H11	FOOT,FRONT	2	
39	CHG1A360	FOOT CUSHION	2	
40	CKL1A012	FOOT,RUBBER(BLACK)	2	
41	CHE170	PCB HOLDER	5	
42	KGX2A219C58	HOUSING,VOLUME	1	
43	COP12655B	MIC,VOLUME PCB	1	See "FRONT PCB (GATHER)" on page 14 .
	COP12655C	MIC,VOLUME PCB	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
44	COP12655B	HP BOARD PCB	1	See "FRONT PCB (GATHER)" on page 14 .
	COP12655C	HP BOARD PCB	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
45	COP12655B	LOUDNEES BOARD PCB	1	See "FRONT PCB (GATHER)" on page 14 .
	COP12655C	LOUDNEES BOARD PCB	1	* : Only A-R630mk2 .See "FRONT PCB (GATHER)" on page 14 .
46	COP12655B	SUB POWER PCB	1	See "FRONT PCB (GATHER)" on page 14 .
	COP12655C	SUB POWER PCB	1	* : Only A-R630mk2. See "FRONT PCB (GATHER)" on page 14 .
47	CTB4+6FFZR	SCREW	6	
48	CTB3+10GR	SCREW	2	
49	CTB3+8JR	SCREW	41	
50	CTB3+6FFZR	SCREW	4	
51	CTW53+10GR	SCREW	1	
52	CTB3+8JFZR	SCREW	20	
53	CTB3+6JR	SCREW	10	
54	CTB3+10GFZR	SCREW	11	
55	CHD1A023R	SCREW	4	
56	CSN2+4R	SCREW	2	
57	CTW3+16JR	SCREW	2	
58	CTW3+8JR	SCREW	9	
59	CTW3+6JR	SCREW	2	
60	CTW3+12JR	SCREW	9	

CAUTION Part with numbers in parentheses () cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List A-R630mk2 (for JPN)**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
1	CGW4A245UB38	PANEL,FRONT	1	
*	CGW4A245TG5	PANEL,FRONT	1	* : Only A-R630mk2 Silver Model
2	CBN2A052Y	KNOB,ROTARY	3	
*	CBN2A052G5		3	* : Only A-R630mk2 Silver Model
3	KGX1A216YA	VOLUME CAP ASS'Y(A)	1	
*	KGX1A216SA		1	* : Only A-R630mk2 Silver Model
4	CGB1A165H8	BADGE,TEAC	1	
*	CGB1A229H8		1	* : Only A-R630mk2 Silver Model
5	KGX1A216VA	VOLUME CAP ASS'Y(A)	1	
*	KGX1A216UA		1	* : Only A-R630mk2 Silver Model
6	CBN1A079YK66	KNOB,ROTARY	1	
*	CBN1A079G5		1	* : Only A-R630mk2 Silver Model
7	CGL1A109	INDICATOR,FUNCTION	3	
8	CBT1A604	KNOB,POWER	1	
*	CBT1A604G5	KNOB,POWER	1	* : Only A-R630mk2 Silver Model
9	CBT1A603	KNOB,TACT	2	
*	CBT1A603G5	KNOB,TACT	2	* : Only A-R630mk2 Silver Model
10	CGR2A154	ORNAMENT,REMOTE	1	
11	CGL1A162	INDICATOR,FUNCTION	2	
12	CBC1A095	KNOB,LOUDNESS	1	
*	CBC1A095G5	KNOB,LOUDNESS	1	* : Only A-R630mk2 Silver Model
13	CMD1A363-V1	BRACKET,POWER	1	
14	CBC1A114	KNOB,SPEAKER	2	
*	CBC1A114G5	KNOB,SPEAKER	2	* : Only A-R630mk2 Silver Model
15	CBT1A605	KNOB,DIRECT	1	
16	CBC1A115	KNOB,LOUDNESS(PUSH)	1	
*	CBC1A115G5	KNOB,LOUDNESS(PUSH)	1	* : Only A-R630mk2 Silver Model
17	KGX1A219C58	HOUSING,VOLUME	1	
18	CMD1A355-V1	BRACKET,TOP	2	
19	CMK1A019-V1	BRACKET,VOLUME	1	
20	CMA2A001	TERMINAL,GROUND	1	
21	COP12657B	VOL' PCB	1	See "PREAMP PCB (GATHER)" on page 14 .
22	COP12680B	POWER PCB(MOMS)	1	See "FRONT PCB (GATHER)" on page 14 .
23	COP12680B	SUB PCB	1	See "FRONT PCB (GATHER)" on page 14 .
24	CKC3A085B25	CABINET,TOP	1	
*	CKC3A085G51	CABINET,TOP	1	* : Only A-R630mk2 Silver Model

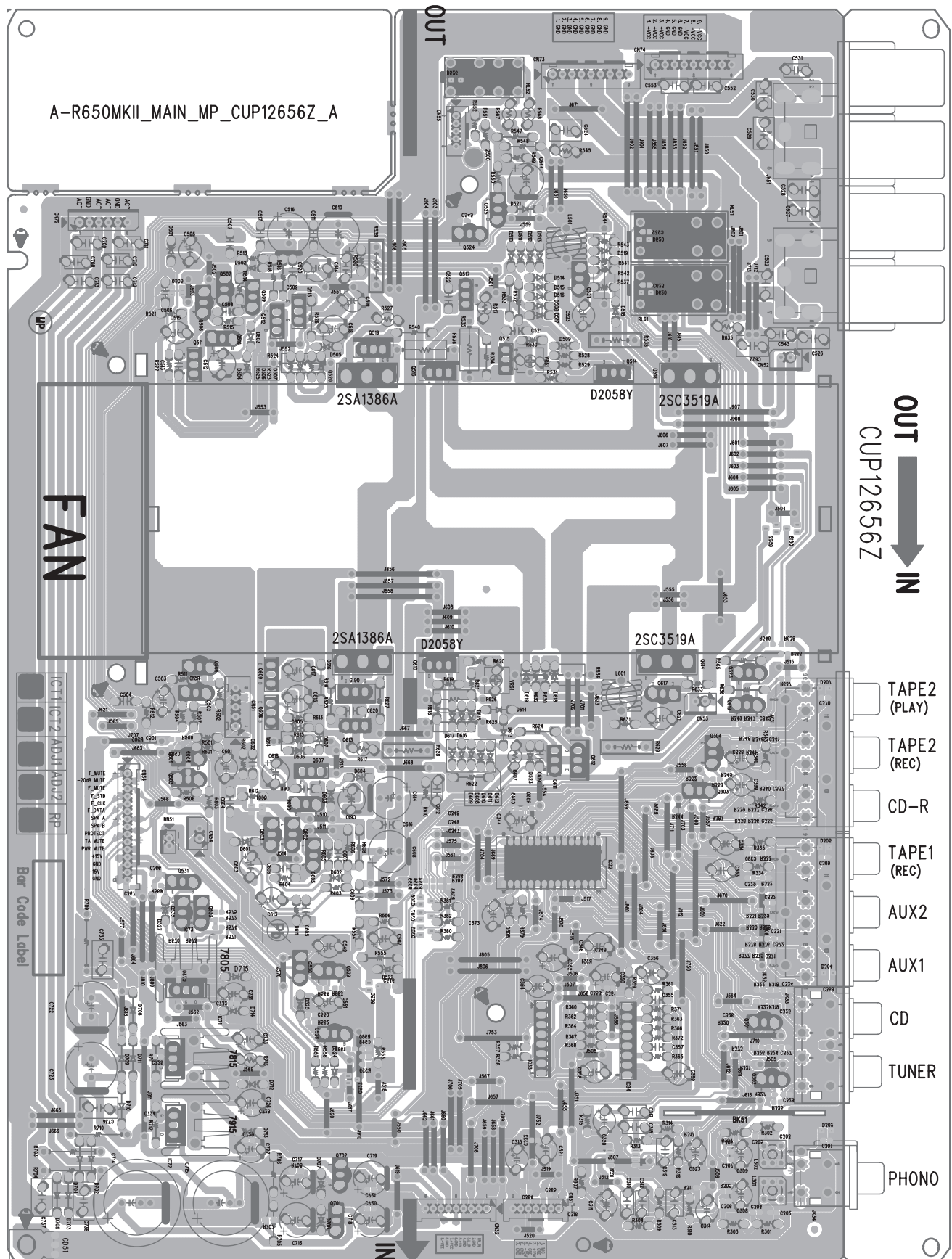
CAUTION Part with numbers in parentheses () cannot be ordered.**注意** "()"付き品番は、発注できません。**Exploded View Parts List A-R630mk2 (for JPN)**

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
25	CMD2A665	BRACKET	1	
26	CJA2J049YA	AC, CORD	1	⚠
27	CKF4A424Y	PANEL,REAR	1	
28	CGP2A015	HEAT SINK COVER	1	
29	COP12680B	SPEAKER PCB	1	See "FRONT PCB (GATHER)" on page 14 .
30	COP12680B	REMOTE PCB	1	See "PREAMP PCB (GATHER)" on page 14 .
31	CMY1A358-V2	HEAT SINK	1	
32	COP12656D	MAIN PCB A-R650	1	See "MAIN PCB" on page 14 .
33	CDMCCM05045R18	MOTOR	1	
34	CGP3A016	FAN FRAME	1	
35	CDD1A013	FAN	1	
36	CLT5U044ZJ	POWER TRANS	1	⚠
37	CUA5A148	BOTTOM CHASSIS	1	
38	CKL2A042H11	FOOT,FRONT	2	
*	CKL2A042H45	FOOT,FRONT	2	* : Only A-R630mk2 Silver Model
39	CHG1A360	FOOT CUSHION	2	
40	CKL1A012	FOOT,RUBBER(BLACK)	2	
41	CHE170	PCB HOLDER	5	
42	KGX2A219C58	HOUSING,VOLUME	1	
43	COP12680B	MIC,VOLUME PCB	1	See "FRONT PCB (GATHER)" on page 14 .
44	COP12680B	HP BOARD PCB	1	See "FRONT PCB (GATHER)" on page 14 .
45	COP12680B	LOUDNEES BOARD PCB	1	See "FRONT PCB (GATHER)" on page 14 .
46	COP12680B	SUB POWER PCB	1	See "FRONT PCB (GATHER)" on page 14 .
47	CTB4+6FFZR	SCREW	6	
48	CTB3+10GR	SCREW	2	
49	CTB3+8JR	SCREW	41	
50	CTB3+6FFZR	SCREW	4	
51	CTWS3+10GR	SCREW	1	
52	CTB3+8JFZR	SCREW	18	
53	CTB3+6JR	SCREW	10	
54	CTB3+10GFZR	SCREW	11	
55	CHD1A023R	SCREW	4	
56	CSN2+4R	SCREW	2	
57	CTW3+16JR	SCREW	2	
58	CTW3+8JR	SCREW	9	
59	CTW3+6JR	SCREW	2	
60	CTW3+12JR	SCREW	9	

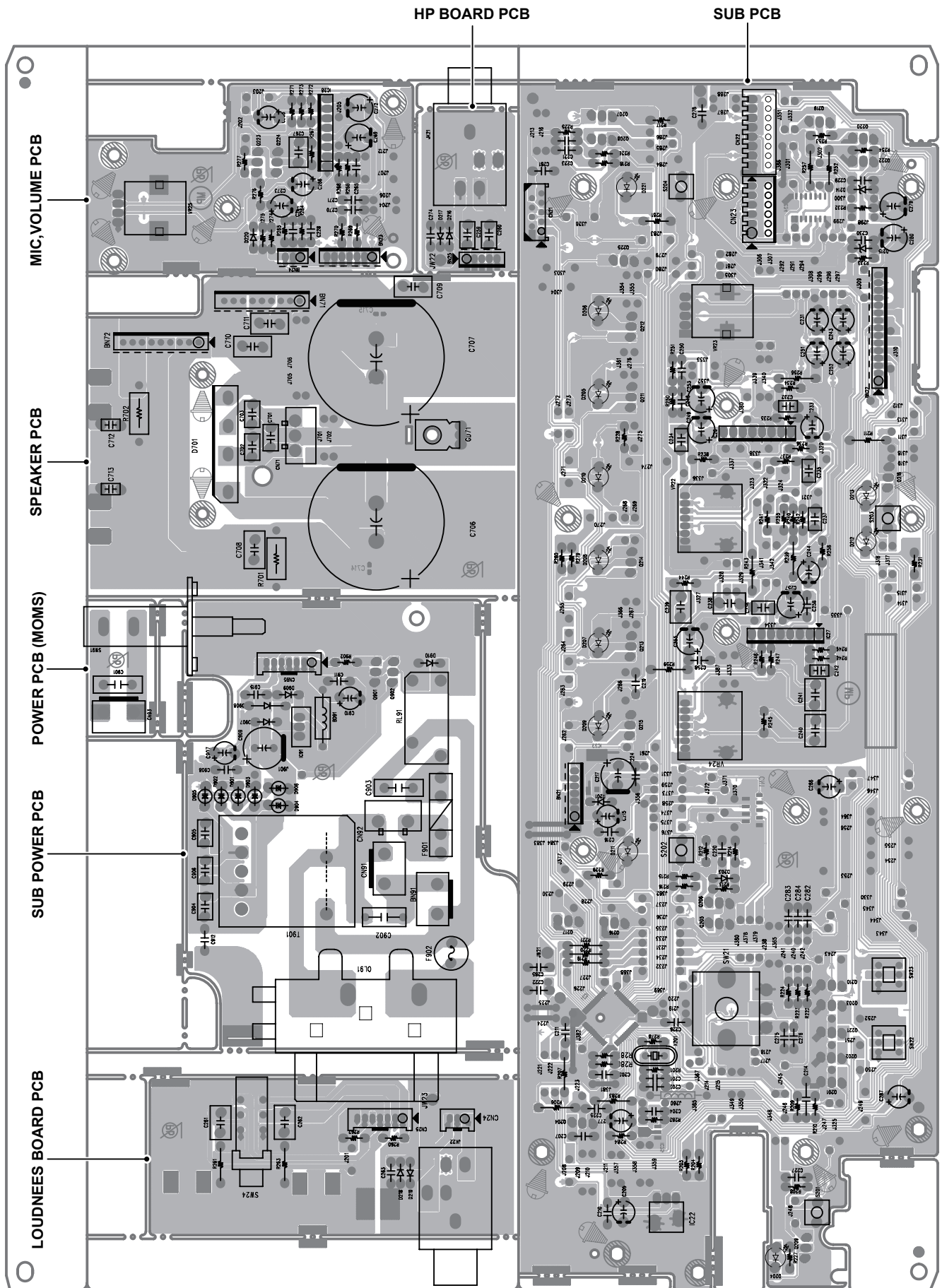
5. PC Boards and Parts List

基板図とパーツリスト

MAIN PCB A-R650



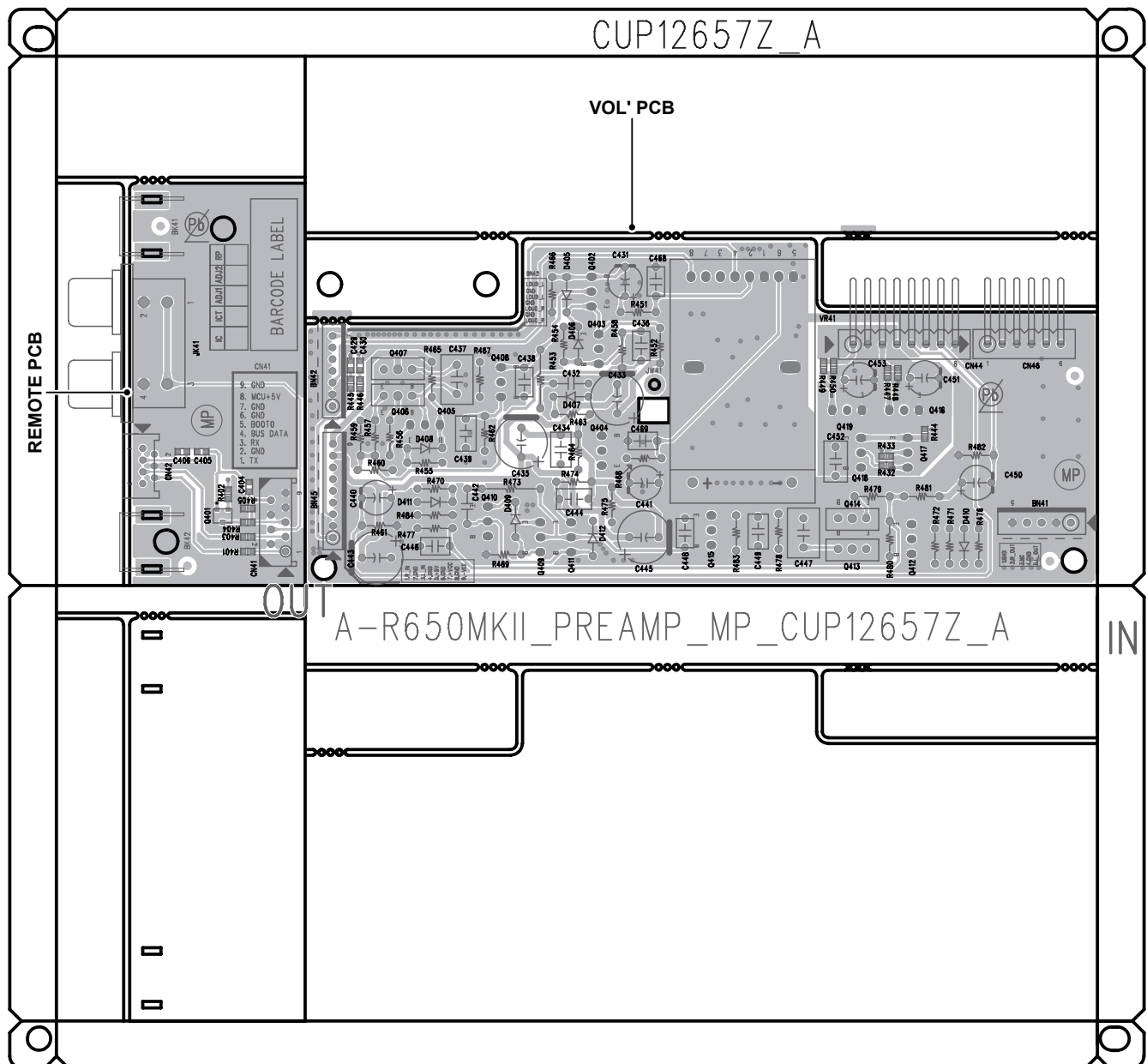
FRONT PCB (GATHER)



CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in **Bold**.

注意 破線部分は、太字品番で発注する補修部品になります。

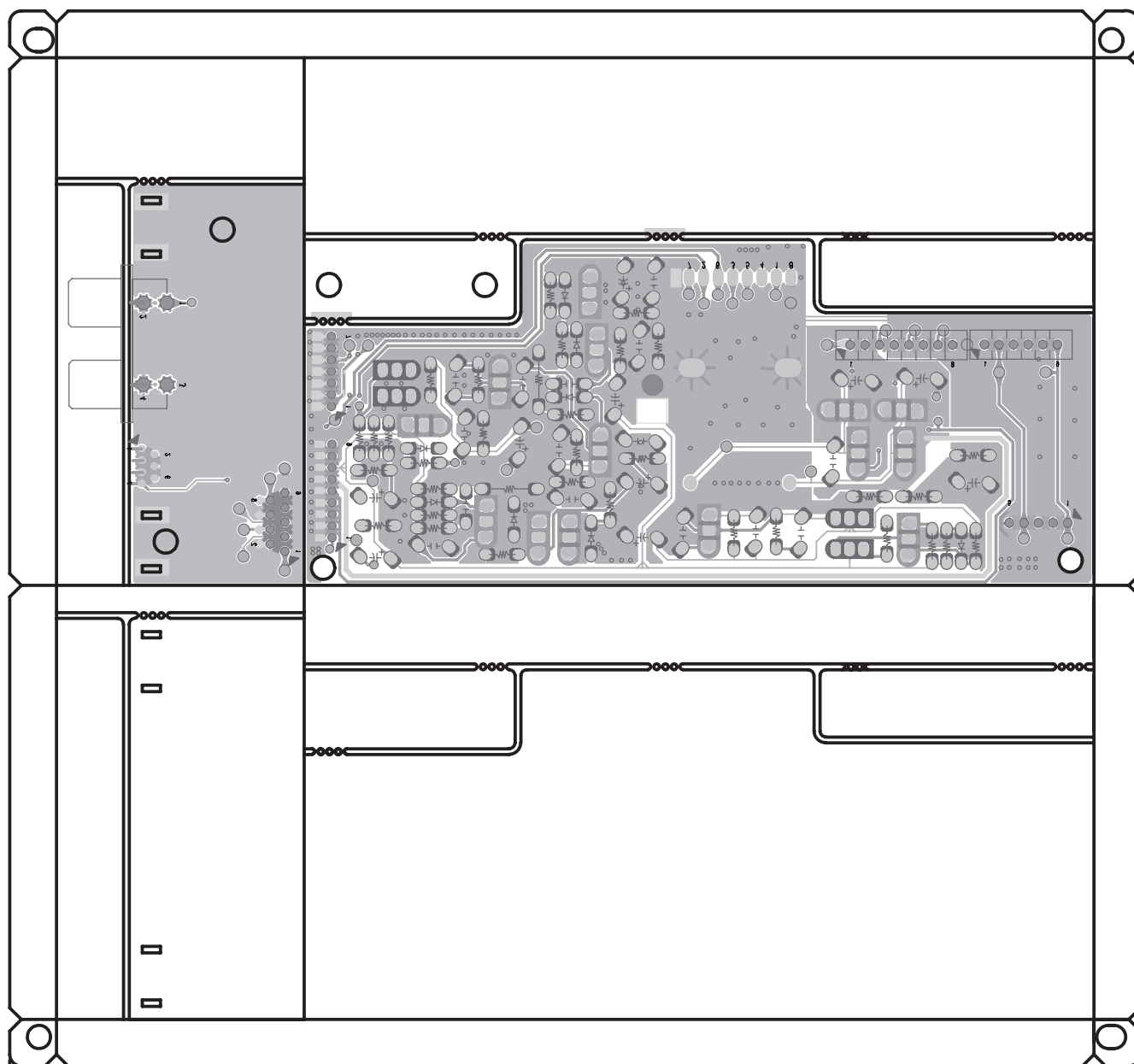
PREAMP PCB (GATHER) (Side A)



CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in **Bold**.

注意 破線部分は、太字品番で発注する補修部品になります。

PREAMP PCB (GATHER) (Side B)



CAUTION The portion in the dashed box consists of service parts that need to be ordered using part numbers in Bold.

注意 破線部分は、太字品番で発注する補修部品になります。

CAUTION

Part with numbers in parentheses () cannot be ordered. If you want to order service parts, be sure to use "Child" part numbers (numbers in Bold), which refer to individual parts of a parent part.

注意

"(")付き品番は、発注できません。補修部品を発注する際は、太字品番で発注してください。

MAIN PCB

メイン 基板

PARTS NO.	DESCRIPTION .	REMARKS
COP12656B	PCBA, MAIN A-R650(330X247,FR1/1)	A-R650mk2
COP12656C	A-R630 EU MAIN PCB ASS`Y	A-R630mk2, [EUR]
COP12656D	A-R630 JP MAIN PCB ASS`Y	A-R630mk2, [JPN]

FRONT PCB (GATHER)

フロント集合 基板

PARTS NO.	DESCRIPTION .	REMARKS
COP12655B	A-R650 FRONT PCB ASS`Y	A-R650mk2
COP12655C	A-R630 EU FRONT PCB ASS`Y	A-R630mk2, [EUR]
COP12680B	A-R630 MKII JPN FRONT PCB ASS`Y	A-R630mk2, [JPN]

PREAMP PCB (GATHER)

プリアンプ集合 基板

PARTS NO.	DESCRIPTION .	REMARKS
COP12657B	A-R650 PREAMP PCB ASS`Y	A-R630mk2/A-R650mk2

6. Safety parts

安全部品

Items

REF.NO.	PARTS NO.	DESCRIPTION .	QTY	REMARKS
F901	KBA2C3150TLEY	FUSE(218Series,250V/3.15A)	1	⚠ A-R630mk2 [EUR]
	KBA2C4000TLEZ	FUSE(250V/4A)	1	⚠ A-R650mk2 [EUR]
	KBA2C5000TLEY	FUSE(218Series,250V/5A)	1	⚠ A-R630mk2 [JPN]
F902	KBA2D2500TLET	FUSE(2.5A)	1	⚠ A-R630mk2/A-R650mk2
OL91	CJJ7A021Z	JACK,ACOUTLET	1	⚠ A-R630mk2/A-R650mk2 [EUR]
	CJJ7A015Z	EOLitem JACK, AC OUTLET(120V,2P)	1	⚠ A-R630mk2 [JPN]
T901	CLT5I009ZE	TRANS, SUBCD6002/N	1	⚠ A-R630mk2/A-R650mk2 [EUR]
	CLT5I009ZJ	TRANS, SUBCD6002/F	1	⚠ A-R630mk2 [JPN]
	CLT5U044ZE	TRANS, POWER	1	⚠ A-R630mk2 [EUR]
	CLT5V056ZE	MAIN TRANS(A-R650EUR)	1	⚠ A-R650mk2 [EUR]
	CLT5U044ZJ	TRANS, POWER	1	⚠ A-R630mk2 [JPN]

7. Included Accessories

付属品

Included Items

REF.NO.	PARTS NO.	DESCRIPTION .	REMARKS
	CQX1A1569Y	MANUAL, INSTRUCTION	A-R630mk2 [EUR]
	CQX1A1523X	MANUAL, INSTRUCTION	A-R650mk2 [EUR]
	CQX1A1570X	MANUAL, INSTRUCTION	A-R630mk2 [JPN]
	CARTAR650MKII	REMOCON TRANSMITTER ASS'Y	

NOTES

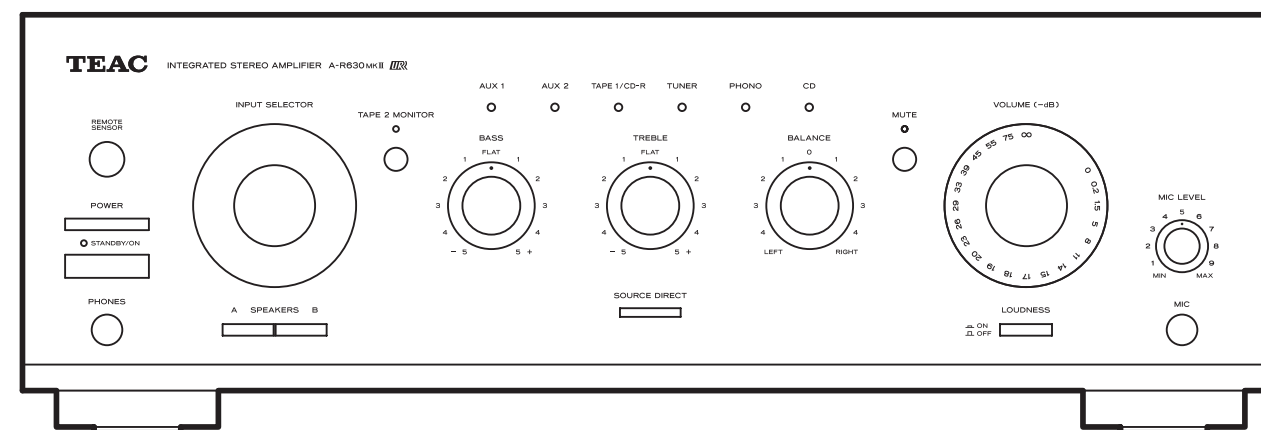
- PC boards shown are viewed from parts side.
- Parts marked with * require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[JPN] : JAPAN [T/C] : U.S.A./CANADA [KOR] : KOREA
[EUR] : EUROPE [UK] : U.K.
[AUS] : AUSTRALIA [TM] : TAIWAN
[CHI] : CHINA [EX/BR] : BRAZIL

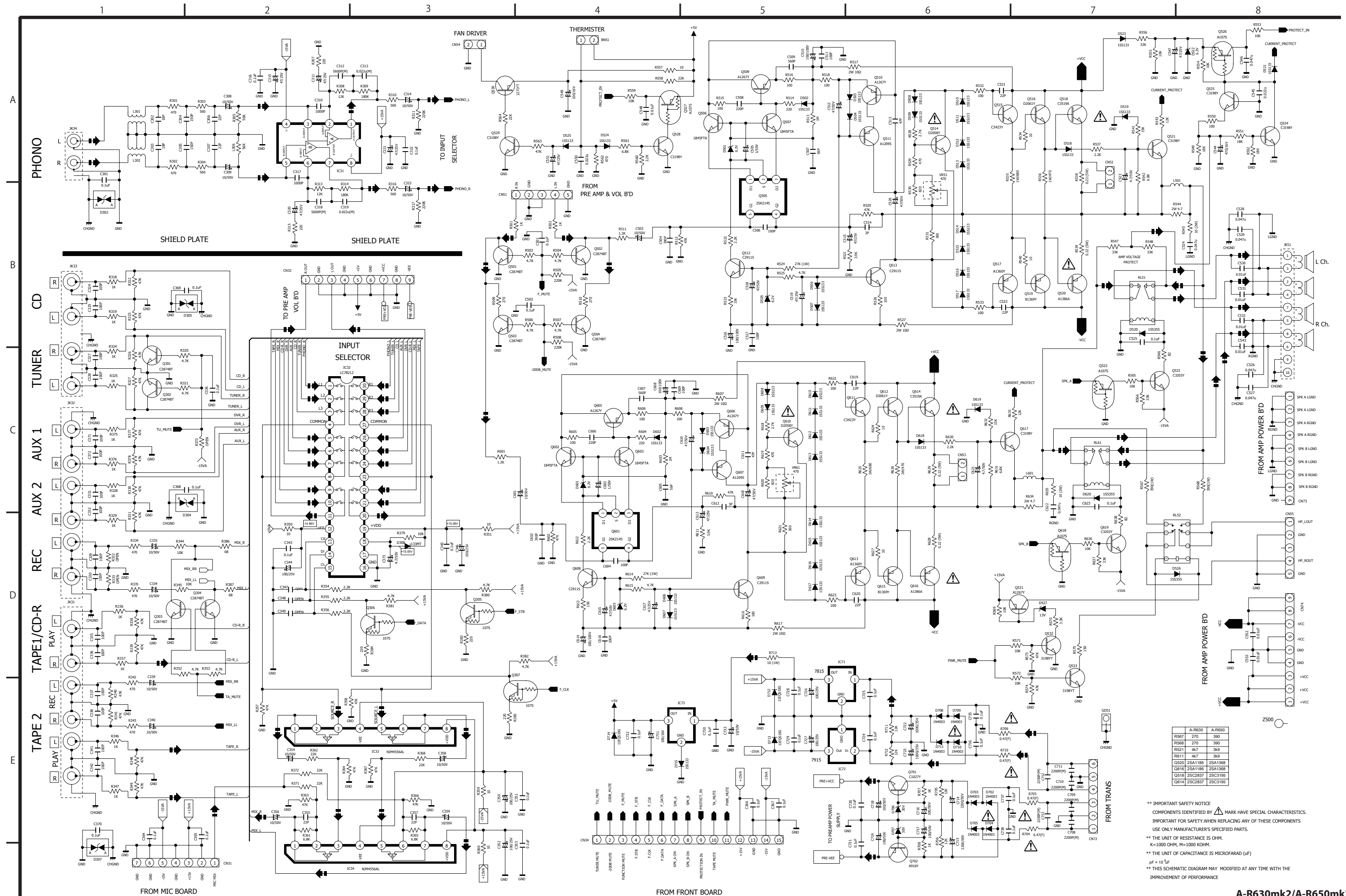
注意

- プリント基板図は部品面を示しています。
- *印の部品は納期が若干かかります。あらかじめご了承ください。
- 分解図に部番のない部品および品番のない部品は供給できません。
- 標準の抵抗、コンデンサーは省略してあります。回路図を参照してください。
- ⚠ 印は安全重要部品です。交換する時は必ず指定の部品を使用してください。
- 仕向先
[JPN] : JAPAN [T/C] : U.S.A./CANADA [KOR] : KOREA
[EUR] : EUROPE [UK] : U.K.
[AUS] : AUSTRALIA [TM] : TAIWAN
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** IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.

** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.

** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF = 10⁻¹²

** THIS SCHEMATIC DIAGRAM MAY BE MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE

