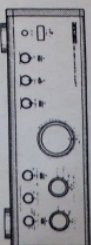

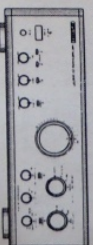



SANSUI SERVICE MANUAL

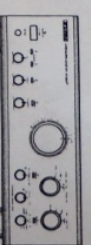
AU-907MR / MRX



AU-707MR / MRX



AU-607MR / MRX



HIGH GRADE STEREO PHONIC INTEGRATED AMPLIFIER

CAUTION (注意)

1. Parts identified the Δ symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
2. Make leakage-current for resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.
 Δ 印がついている部品は、安全性を維持するために、重要な部品です。
これらの部品を交換する際には、必ず指定された部品を使用して下さい。

Notice / 告知

Table of Contents / 目次

The symbols OO and XX on the parts list and the schematic diagram mean followings respectively.

日本国向け製品専用部品には"OO"マークが付いて居ます。

OO Manufactured for Japanese market.

XX Standard Version.

* (EXPORT) * (Non Japanese market.)

XX-C Standard Version.

(For People's Republic of China market.)

XX-T Standard Version.

(For Republic of China market.)

Non Mark Common parts.

マークの無い部品は全仕向け共通です。

1	Caution / 注意書
1	Notice / 告知
1	Table of Contents / 目次
2	Specifications / 仕様 "#1"
5	Schematic Diagram / 回路図 "#2"
11	Adjustment / 調整方法 "#3"
15	Interior Block Diagram & terminal Function of ICs / IC の内部図 "#4"
16	Parts Location on Printed Circuit Board / 基板の部品配置図 "#5"
24	Parts List of Printed Circuit Board / プリント基板の部品表 "#6"
45	Mechanism Parts List / 機構部品表 "#7"
48	Packing list / 梱包材部品表 "#8"
	Accessories / 付属部品表 "#9"

Model name markers "???" in top of any page indicate be written of this model here.

各頁上部に記載されて居ます機種名の記号は、その機種に属している記号が盛り込まれて居ることを示して居ます。

記号は、その機種に属している記号が

Ⓔ907MRX

Ⓔ907MR

1. SPECIFICATIONS / 仕様

1-1. AU - Ⓔ907MR and AU - Ⓔ907MRX

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力
 (at 10Hz - 20kHz & lesser than 0.003% total harmonics distortion)
 At each channel into 8Ω 160W r.m.s.
 At each channel into 6Ω 190W r.m.s.
 Total harmonics distortion (at 20Hz-20kHz) / 全高調波歪率
 At 160W output each channel into 8Ω 0.003%
 At 95W output each channel into 6Ω 0.005%
 Inter modulations distortion (at 60Hz, 7kHz = 4 : 1 input / 混交調歪率
 At 160W output each channel into 8Ω 0.003%
 Dumping factor (at 1kHz into 8Ω) / タゲ・ゲ・ゲ外 150
 Frequency response (at 1W output) / 周波数特性
 D.C. - 300kHz ⁺³dB

Input sensitivity and impedance (at 1kHz) / 入力感度 ... 1V r.m.s. / 5kΩ
 Signal to noise ratio (at 1W into IHF - A202 network) / SN比
 Short circuit (short their input terminals) 120dB
 Dynamic power / ダイナミック・パワー
 At each channel into 6Ω 310W r.m.s.
 At each channel into 4Ω 390W r.m.s.
 At each channel into 2Ω 580W r.m.s.

Envelope distortion / DV・D-J歪 Below measurable limit
 T. I. M. distortion / TIM歪 Below measurable limit
 Through time (at each channel into 8Ω) / 通・切 0.5 μSec.
 Rise time / ライズ・タイム 0.5 μSec.
 Channel separation (at 1kHz) / チャンネル・別・V-U-J 90dB
 Noise (at each channel into 8Ω) / 残留雑音 ... 0.5mV r.m.s.
 Output power of head phone terminal / ヘッド出力 ... 0.5V r.m.s. / 33Ω
 Load impedance (of speaker terminals at each channel) / 負荷
 4Ω - 16Ω

● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度
 PHONO (MC) input terminals 0.3mV r.m.s. / 100kΩ
 PHONO (MM) input terminals 2.5mV r.m.s. / 47kΩ
 The other input terminals 150mV r.m.s. / 20kΩ
 Maximum input capability (at 1kHz) / 最大許容入力
 PHONO (MC) input terminals (less than 0.1% THD) 21mV
 PHONO (MM) input terminals (less than 0.1% THD) 210mV
 Output voltage and impedance (at 1kHz) / 出力電圧
 TAPE RECORDING terminals 150mV r.m.s. / 47kΩ

Frequency response (at 1W output) / 周波数特性

PHONO (MM) input terminals 20Hz - 20kHz ± 0.2 dB
 The other input terminals D.C. - 300kHz ⁺³dB
 Signal to noise ratio (into IHF - A202 network, short circuit) / SN比
 PHONO (MC) input terminals 75dB
 PHONO (MM) input terminals 90dB
 The other input terminals 110dB
 Separation of channels (at 1kHz) / チャンネル・別・V-U-J
 PHONO (MC) input terminals 50dB
 PHONO (MM) input terminals 65dB

The others input terminals 85dB
 Separation of the other sources (at 1kHz) / クロス・トーン
 TUNER \Leftrightarrow PHONO (MM) 85dB
 CD, TAPE \Leftrightarrow PHONO (MM) 90dB
 CD, TUNER \Leftrightarrow TAPE 90dB
 TAPE \Leftrightarrow TAPE 90dB
 Tone control / トーン・コントロール
 Bass (at 50Hz) & Treble (at 15kHz) +6dB - -6dB
 Subsonic filter / 714Hz cut off 16Hz, slope 6dB / oct.
 Roundness filter (at -30dB point of master volume) / ローパス
 +6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. 7Pin - 1Pin
 Switched maximum 100W
 Unswitched total maximum 250W
 Power requirements / 供給電源
 AU - Ⓔ907MR A.C. 100V / 50Hz or 60Hz
 AU - Ⓔ907MRX A.C. 110V / 50Hz or 60Hz
 or A.C. 230V / 50Hz or 60Hz
 Power consumption / 定格消費電力
 AU - Ⓔ907MR 400W
 AU - Ⓔ907MRX 800W
 Dimensions (Package dimensions) / 外形寸法 (梱包時)
 Width 471mm (579mm)
 Height 163mm (267mm)
 Depth 452mm (537mm)
 Weight of solid (Packet weight) / 本体質量 (梱包時質量)
 33.0kg (35.0kg)
 Bulk (Volume of packet) / 梱包寸数 2-11cft / 0.083m³

•Design and specifications subject to change without notice for improvements.
 •Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.

•本機の蓋及び仕様の一部は、改良の為、予告無く変更する事があります。

④707MR

1-2. AU - ④707MR and AU - ④707MRX

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力
(at 10Hz - 20kHz & lesser than 0.003% total harmonics distortion)

At each channel into 8Ω 130Wr.m.s.
At each channel into 6Ω 160Wr.m.s.

Total harmonics distortion (at 10Hz-20kHz) / 全高調波歪率
At 130W output each channel into 8Ω 0.003%
At 85W output each channel into 6Ω 0.005%

Inter modulations distortion (at 60Hz : 7kHz = 4 : 1 input) / 混交調波歪率
At 130W output each channel into 8Ω 0.003%
Dumping factor (at 1kHz into 8Ω) / タンク・ファクタ 150

Frequency response (at 1W output) / 周波数特性
D.C. - 300kHz \pm 0dB

Input sensitivity and impedance (at 1kHz) / 入力感度 ... 1Vr.m.s. / 5kΩ
Signal to noise ratio (at 1W into I.H.F. - A202 network) / SN比
Short circuit (Short their input terminals) 120dB
Dynamic power / ダイナミック・パワー
At each channel into 6Ω 210Wr.m.s.
At each channel into 4Ω 320Wr.m.s.
At each channel into 2Ω 405Wr.m.s.
Envelope distortion / DM-0-7歪 Below measurable limit
T. I. M. distortion / TIM歪 Below measurable limit
Through late (at each channel into 8Ω) / ル・レト 200V / μ Sec.
Rise time / ライス・タイム 0.5 μ Sec.
Channel separation (at 1kHz) / チャンネル・セパレーション 90dB
Noise (at each channel into 8Ω) / 残留雑音 0.5mVr.m.s.
Output power of head phone terminal / ヘッドホン出力 0.5Vr.m.s. / 33Ω
Load impedance (of speaker terminals at each channel) / 負荷
Each system ("A" system or "B" system) 4Ω ~ 16Ω
Both systems ("A" system and "B" system) 8Ω ~ 16Ω

● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度
PHONO (MC) input terminals 0.3mVr.m.s. / 100kΩ
PHONO (MM) input terminals 2.5mVr.m.s. / 47kΩ
The other input terminals 150mVr.m.s. / 20kΩ
Maximum input capability (at 1kHz) / 最大許容入力
PHONO (MC) input terminals (less than 0.1% THD) 21mV
PHONO (MM) input terminals (less than 0.01% THD) 210mV
Output voltage and impedance (at 1kHz) / 出力電圧
TAPE RECORDING terminals 150mVr.m.s. / 47kΩ

④707MRX

Frequency response (at 1W output) / 周波数特性
PHONO (MM) input terminals 20Hz - 20kHz \pm 0.2dB
The other input terminals D.C. - 200kHz \pm 0dB
Signal to noise ratio (into I.H.F. - A202 network, short circuit) / SN比
PHONO (MC) input terminals 70dB
PHONO (MM) input terminals 88dB
The other input terminals 110dB
Separation of channels (at 1kHz) / チャンネル・セパレーション
PHONO (MC) input terminals 50dB
PHONO (MM) input terminals 65dB
The others input terminals 85dB
Separation of the other sources (at 1kHz) / クロス・トーク
TUNER \Leftrightarrow PHONO (MM) 85dB
CD, TAPE \Leftrightarrow PHONO (MM) 90dB
CD, TUNER \Leftrightarrow TAPE 90dB
TAPE \Leftrightarrow TAPE 90dB
Tone control / トーン・コントロール
Bass (at 50Hz) & Treble (at 15kHz) +6dB - -6dB
Subsonic filter / サブソニック・フィルタ cut off 16Hz, slope 6db / oct.
Roudness filter (at -30dB point of master volume) / ラウドネス
+6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. 70V・レト
Switched maximum 100W
Unswitched total maximum 250W
Power requirements / 供給電源
AU - ④707MR A.C. 100V / 50Hz or 60Hz
AU - ④707MRX A.C. 110V / 50Hz or 60Hz
..... or A.C. 230V / 50Hz or 60Hz
Power consumption / 定格消費電力
AU - ④707MR 330W
AU - ④707MRX 630W
Dimensions (Package dimensions) / 外形寸法 (梱包時)
Width 466mm (579mm)
Height 162mm (267mm)
Depth 452mm (537mm)
Weight of solid (Packet weight) / 本体質量 (梱包時質量)
23.5kg (25.0kg)
Bulk (Volume of packet) / 梱包寸数 2-11cft / 0.083m³

•Design and specifications subject to change without notice for improvements.

•Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.

•本機の一部は、改良の為、予告無く変更する事があります。

607MRX

1-3. AU - 607MR and AU - 607MRX

607MR

● Main Amplifier Section / 主増幅器部

Power band width / 帯域実効出力
(at 10Hz ~ 20kHz & lesser than 0.003% total harmonics distortion)

At each channel into 8Ω 90Wr.m.s.
At each channel into 6Ω 105Wr.m.s.

Total harmonics distortion (at 10Hz~20kHz) / 全高調波歪率
At 90W output each channel into 8Ω 0.003%
At 52.5W output each channel into 6Ω 0.005%

Inter modulations distortion (at 60Hz, 7kHz = 4:1 input) / 混交調歪率
At 90W output each channel into 8Ω 0.003%

Dumping factor (at 1kHz into 8Ω) / ダンプ・ファクタ 150

Frequency response (at 1W output) / 周波数特性
D.C. ~ 300kHz \pm 3dB

Input sensitivity and impedance (at 1kHz) / 入力感度 ... 1Vr.m.s. / 5kΩ

Signal to noise ratio (at 1W into I.H.F. - A202 network) / SN比
Short circuit (Short their input terminals) 120dB

Dynamic power / ダイナミック・パワー
At each channel into 6Ω 155Wr.m.s.
At each channel into 4Ω 220Wr.m.s.
At each channel into 2Ω 280Wr.m.s.

Envelope distortion / エンベロープ歪 Below measurable limit

T. I. M. distortion / TIM歪 Below measurable limit

Through late (at each channel into 8Ω) / 遅れ 180V / μ Sec.

Rise time / ライズ・タイム 0.6 μ Sec.

Channel separation (at 1kHz) / チャンネル・セパレーション 85dB

Noise (at each channel into 8Ω) / 残留雑音 ... 0.5mVr.m.s. / 33Ω

Output power of head phone terminal / ヴォル・出力 0.5Vr.m.s. / 33Ω

Load impedance (of speaker terminals at each channel) / 負荷
Each system ("A" system or "B" system) 4Ω ~ 16Ω
Both systems ("A" system and "B" system) 8Ω ~ 16Ω

● Pre Amplifier Section / 前置増幅器部

Input sensitivity and impedance (at 1kHz) / 入力感度
PHONO (MC) input terminals 0.3mVr.m.s. / 100kΩ
PHONO (MM) input terminals 2.5mVr.m.s. / 47kΩ
The other input terminals 150mVr.m.s. / 20kΩ

Maximum input capability (at 1kHz) / 最大許容入力
PHONO (MC) input terminals (less than 0.1% THD) 21mV
PHONO (MM) input terminals (less than 0.01% THD) 210mV

Output voltage and impedance (at 1kHz) / 出力電圧
TAPE RECORDING terminals 150mVr.m.s. / 47kΩ

Frequency response (at 1W output) / 周波数特性
PHONO (MM) input terminals 20Hz ~ 20kHz \pm 0.2dB
The other input terminals D.C. ~ 200kHz \pm 3dB

Signal to noise ratio (into I.H.F. - A202 network, short circuit) / SN比
PHONO (MC) input terminals 70dB
PHONO (MM) input terminals 88dB
The other input terminals 110dB

Separation of channels (at 1kHz) / チャンネル・セパレーション
PHONO (MC) input terminals 50dB
PHONO (MM) input terminals 65dB

The others input terminals 85dB

Separation of the other sources (at 1kHz) / クロス・トーク
TUNER \Leftrightarrow PHONO (MM) 85dB
CD, TAPE \Leftrightarrow PHONO (MM) 90dB
CD, TUNER \Leftrightarrow TAPE 90dB
TAPE \Leftrightarrow TAPE 90dB

Tone control / トーン・コントロール
Bass (at 50Hz) & Treble (at 15kHz) +6dB ~ -6dB
Subsonic filter / フォウ cut off 16Hz, slope 6dB / oct.
Roudness filter (at -30dB point of master volume) / ラウトネス
+6dB at 50Hz, +4dB at 10kHz

● General Section (The others) / 総合部

External Maximum consumption power of extra outlet / A.C. 70V・110V
Switched maximum 100W
Unswitched total maximum 250W

Power requirements / 供給電源
AU - 607MR A.C. 100V / 50Hz or 60Hz
AU - 607MRX A.C. 110V / 50Hz or 60Hz
..... or A.C. 230V / 50Hz or 60Hz

Power consumption / 定格消費電力
AU - 607MR 250W
AU - 607MRX 340W

Dimensions (Package dimensions) / 外形寸法 (梱包時)
Width 430mm (543mm)
Height 162mm (267mm)
Depth 452mm (537mm)

Weight of solid (Packet weight) / 本体質量 (梱包時質量)
18.0kg (20.0kg)

Bulk (Volume of packet) / 梱包寸数 2.9cft / 0.078m³

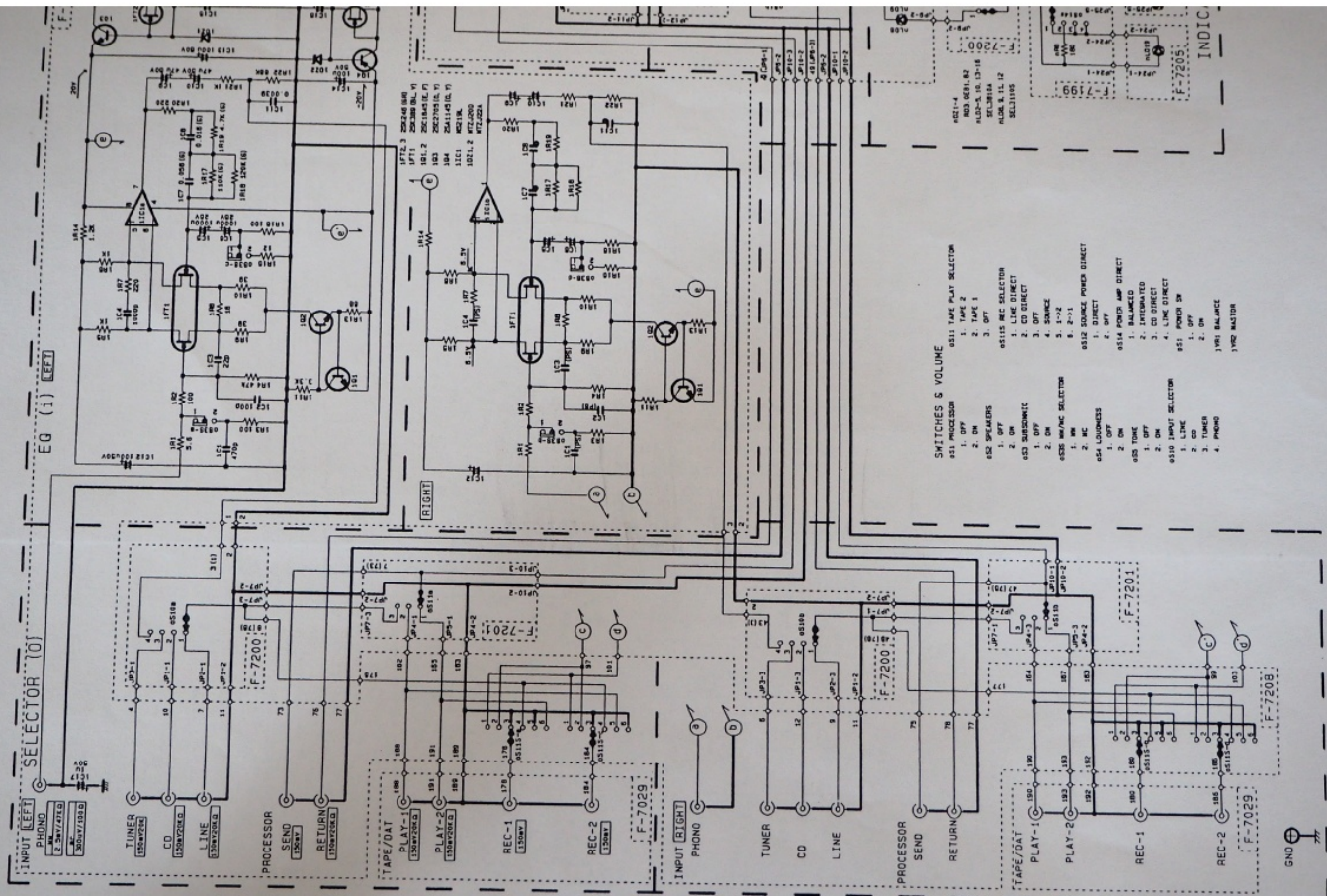
● Design and specifications subject to change without notice for improvements.

● Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selector.

● 本機の意匠及び仕様の一部は、改良の高、予告無く変更する事があります。

2. SCHEMATIC DIAGRAM / 回路図

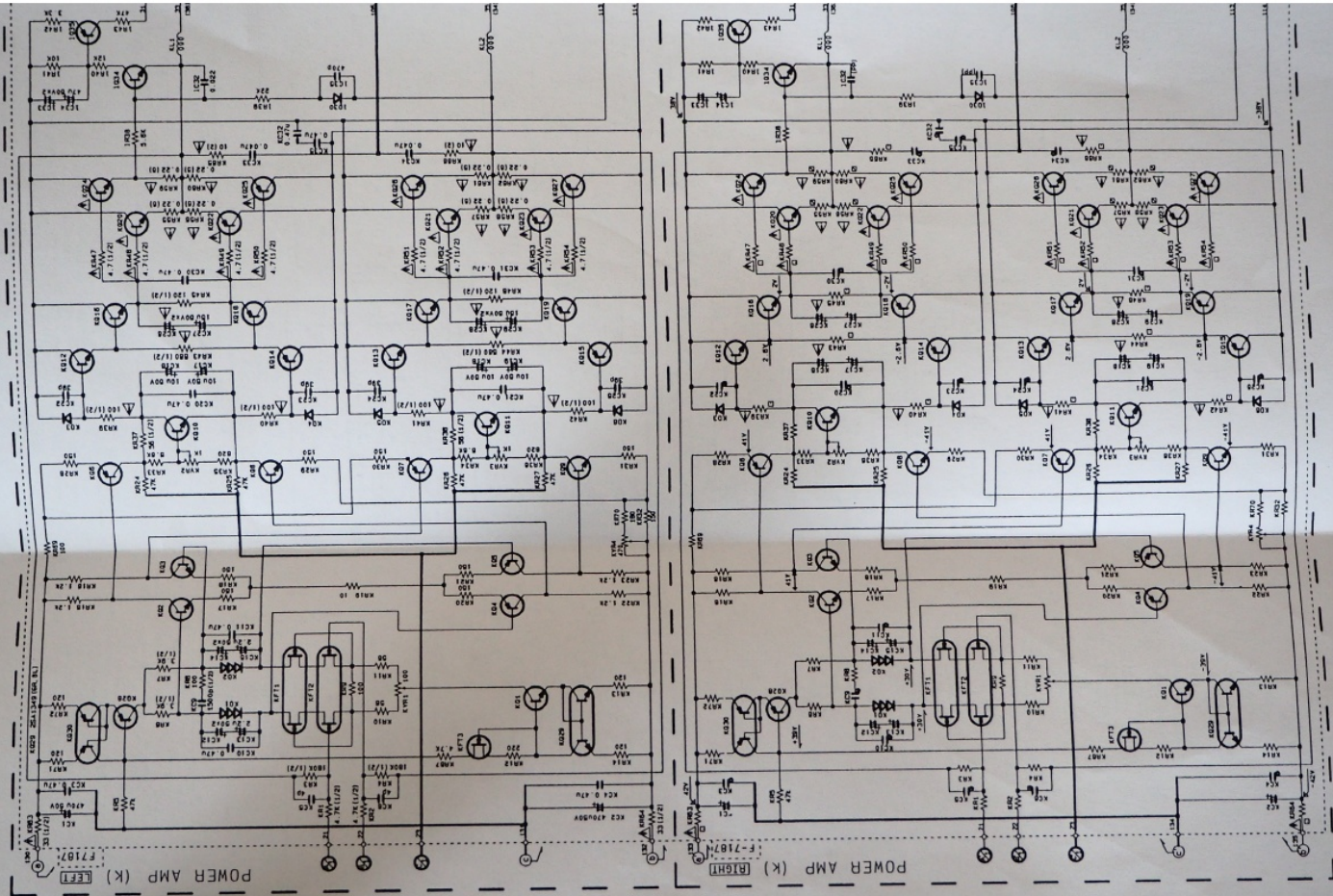
2-1-1. PRE AMPLIFIER CIRCUIT



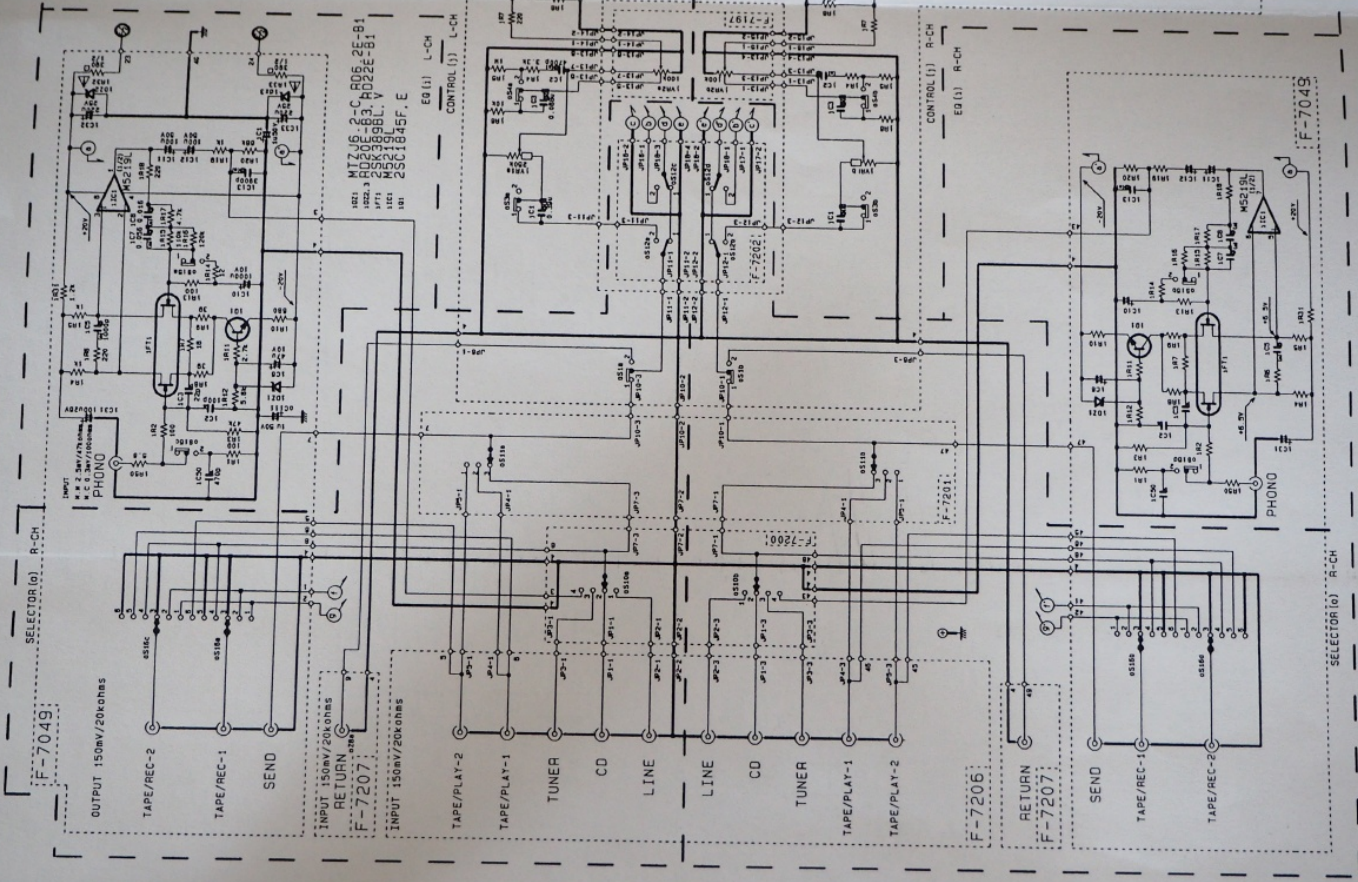
907MRX

907MR

2-1-2. MAIN AMPLIFIER CIRCUIT & POWER SUPPLY CIRCUIT / パワーアンプ



2-2-1. PRE AMPLIFIER CIRCUIT / プリ・アンプ回路



707MR

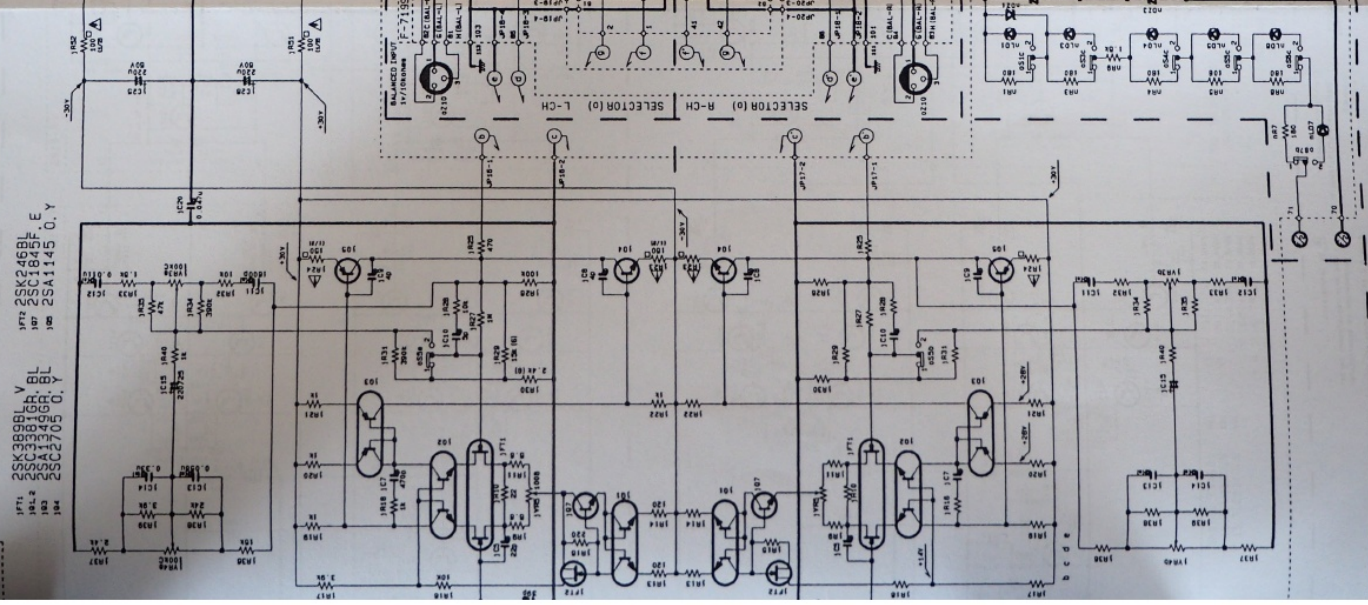
707MRX

• Design and specifications subject to change without notice for improvements.
• 本機の型匠及び仕様の一部は、改良のため、予告なく変更することがあります。

7196

1P71 909B
1P72 909C
1S3 2C1825F.E
1S4 2C3700 O.Y

1P72 55X248BF
1S7 55C1845F.E
1S8 55A1145 O.Y



SYMBOL OF FUNCTION
(e) CONTROL
(f) INDICATOR
(g) SELECTOR

CAPACITORS
Are in pF unless
indicated otherwise.

ELECTROLYTIC CAPACITORS
Value in microfarads.

RESISTORS
Are in ohms, unless
indicated otherwise.

TOLERANCE
E $\pm 1\%$
V $\pm 5\%$
A is safety part.
Use only replacement
by the manufacturer.

SYMBOL
A. OPERA
B. M-PLA
C. PA
D. M-PLA

SWITCHES

- 5512A-11 POWER PROCESSOR
- 2. SW
- 5512A-12 MONITOR
- 1. SW
- 5512A-13 ADDRESS
- 2. SW
- 5512A-14 TUNING
- 1. SW
- 5512A-15 TUNING
- 2. SW
- 5512A-16 SYSTEM
- 1. SW
- 5512A-17 SYSTEM
- 2. SW
- 5512A-18 TUNING PLAY
- 1. SW
- 5512A-19 TUNING
- 2. SW
- 5512A-20 SOURCE POWER
- 1. SW
- 5512A-21 DIRECT
- 2. SW
- 5512A-22 POWER AMPLIFIER
- 1. BALANCE
- 2. DIRECT
- 3. CD DIRECT
- 4. LINE DIRECT
- 5. LINE
- 6. SW
- 5512A-23 REC. SELECTOR
- 1. LINE DIRECT
- 2. SW
- 3. LINE
- 4. SW
- 5. SW
- 6. SW

Each B.C. resistor shown
with the letter 'B' and
the letter 'C' in parentheses.

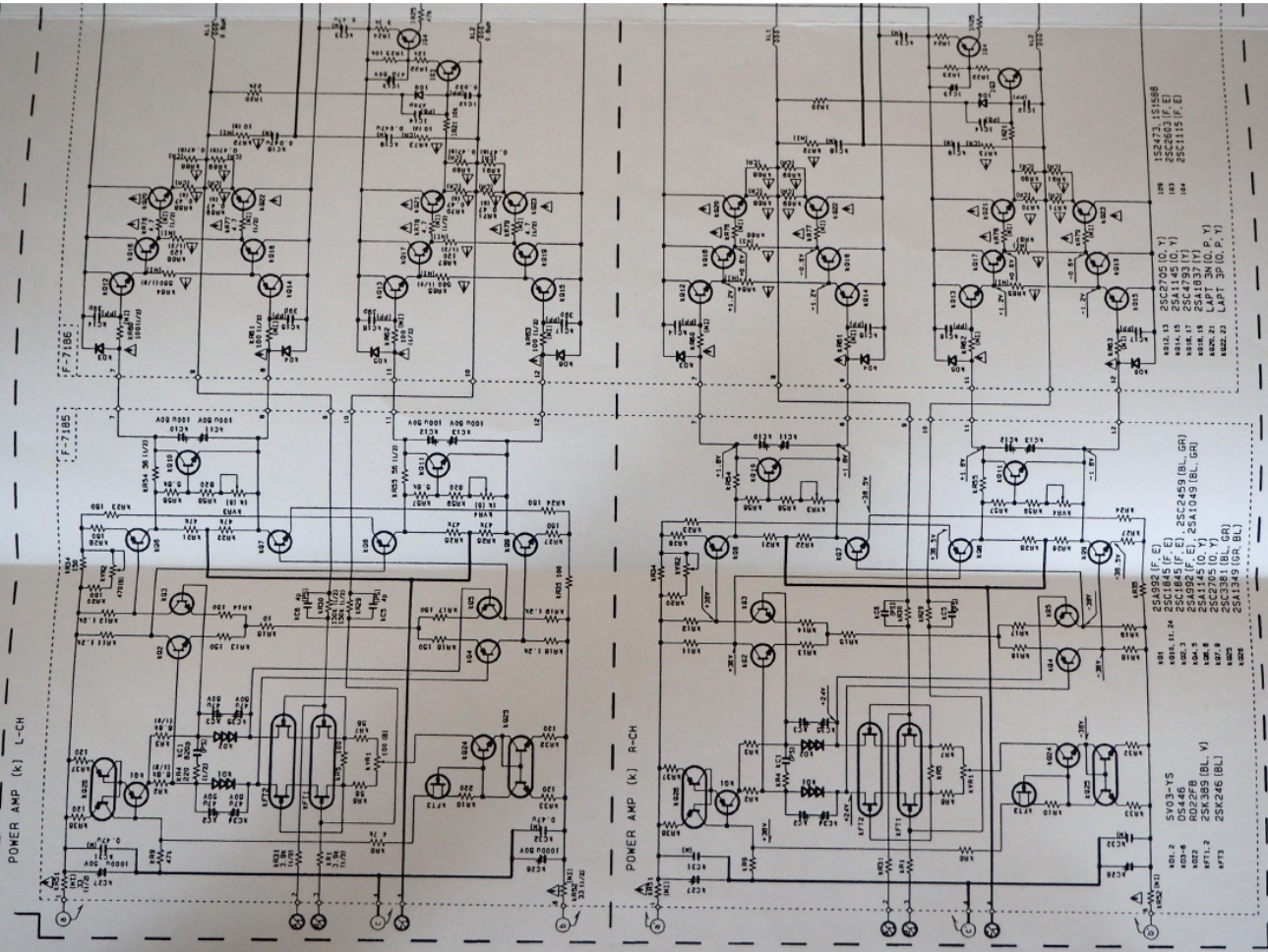
INDICATOR (n)

- MTZ-5 5B. G
- ADD. 180A. B
- MD-11-113 SEL. 31105
- MD-14, 15, 19

EX707MRX

EX707MR

2-2-2. MAIN AMPLIFIER CIRCUIT & POWER SUPPLY CIRCUIT / パワーアンプ及び電源



SYMBOL
 R RESISTOR
 IN INDUCTIVE REACTANCE
 CAP CAPACITANCE
 CEN CENTRAL POINT

RESISTOR TOLERANCE: ±1% (E), ±5% (F, G), ±10% (H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z)
 CAPACITOR TOLERANCE: ±5% (E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z)

STANDARD VALUES:
 RESISTORS: E24, E96, E192
 CAPACITORS: E6, E12, E24, E48, E96, E192

RESISTOR CODES:
 100 100Ω
 1K 1KΩ
 10K 10KΩ
 100K 100KΩ
 1M 1MΩ

CAPACITOR CODES:
 100 100pF
 1K 1KpF
 10K 10KpF
 100K 100KpF
 1M 1MpF

RESISTOR TOLERANCE: ±1% (E), ±5% (F, G), ±10% (H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z)
 CAPACITOR TOLERANCE: ±5% (E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z)

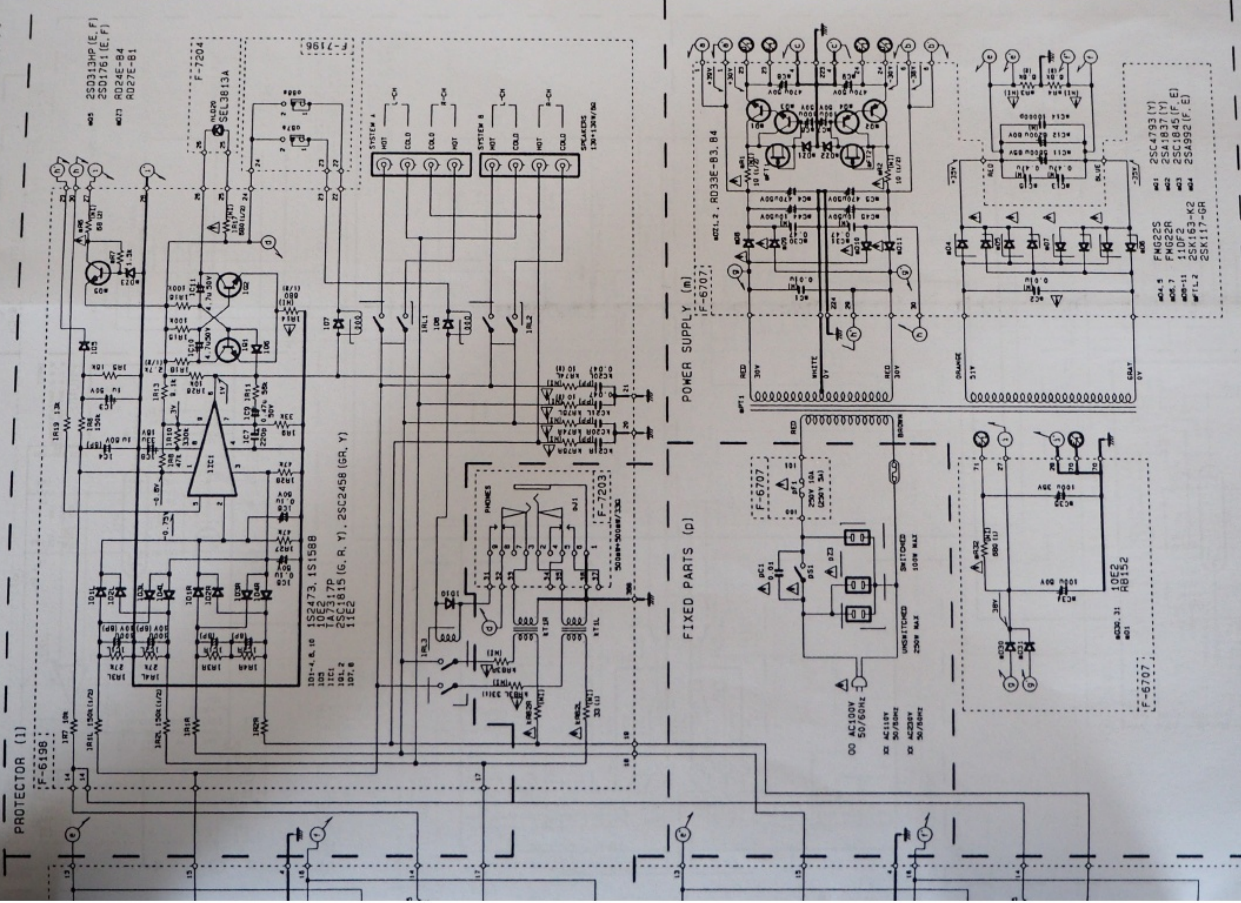
STANDARD VALUES:
 RESISTORS: E24, E96, E192
 CAPACITORS: E6, E12, E24, E48, E96, E192

RESISTOR CODES:
 100 100Ω
 1K 1KΩ
 10K 10KΩ
 100K 100KΩ
 1M 1MΩ

CAPACITOR CODES:
 100 100pF
 1K 1KpF
 10K 10KpF
 100K 100KpF
 1M 1MpF

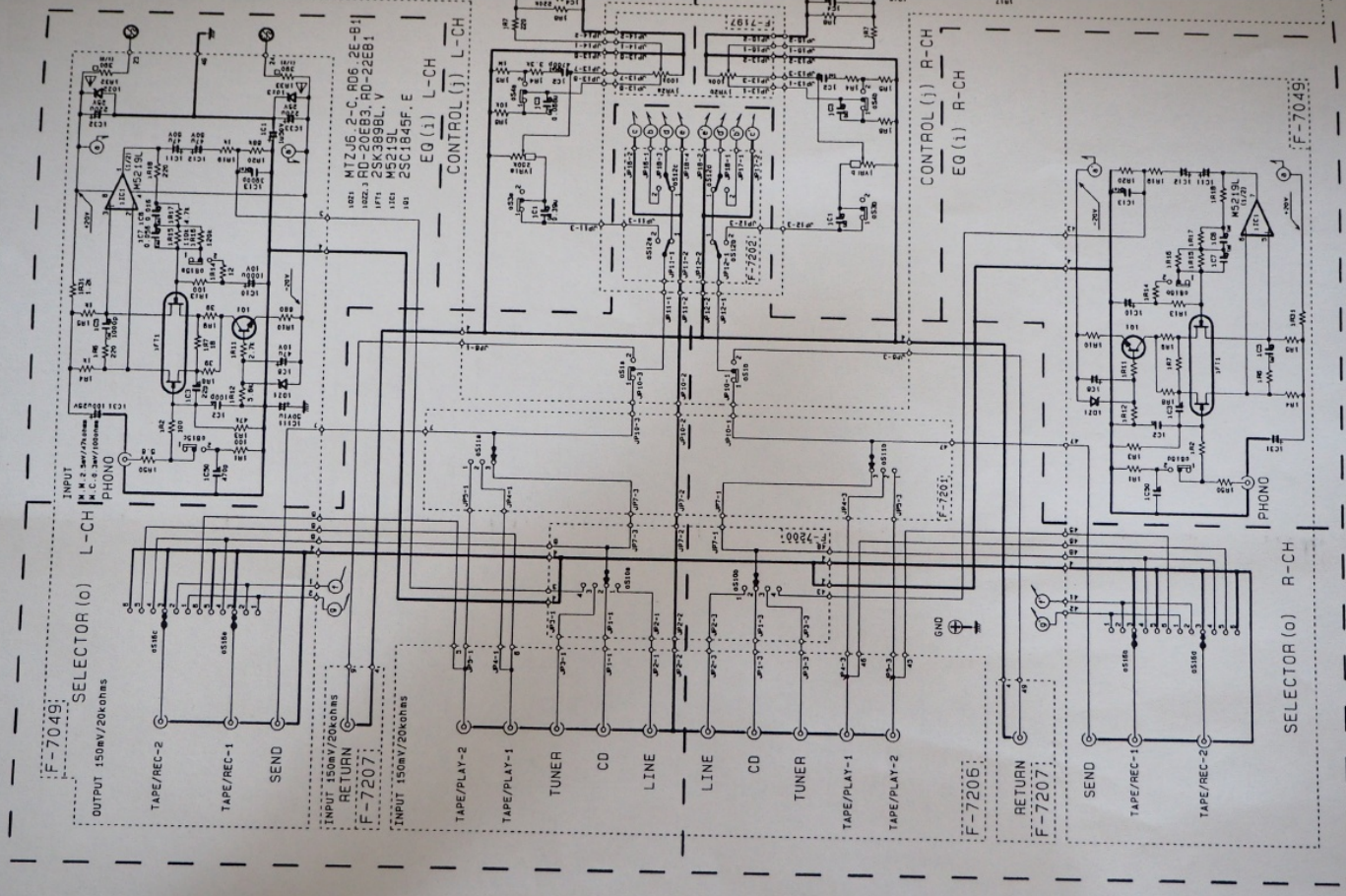
電源回路

- Design and specifications subject to change without notice for improvements.
- 本機の保証及び仕様の一部は、改良のため、予告なく変更することがあります。



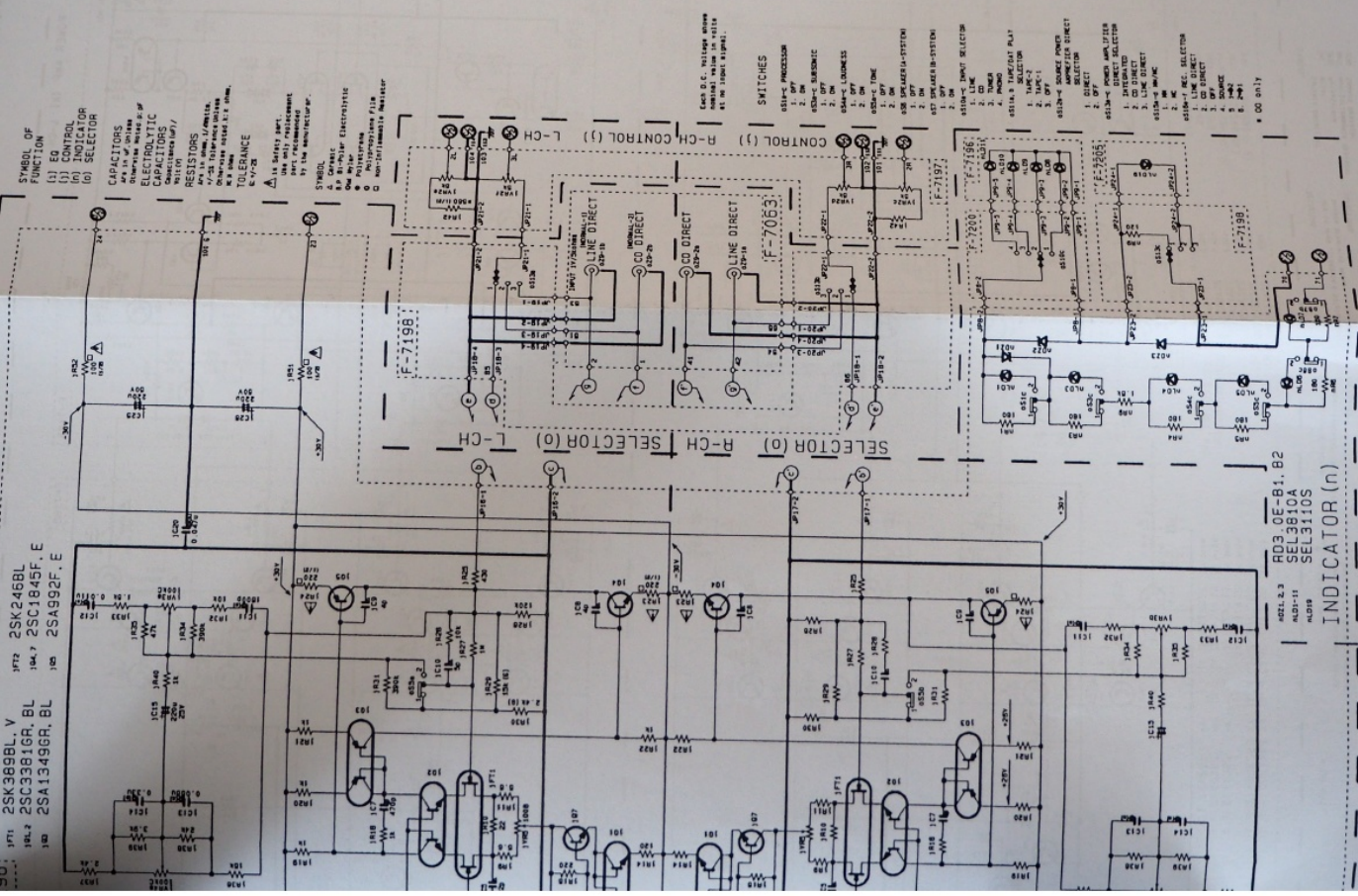
- SYMBOL OF FUNCTION
- (K) POWER AMP
 - (L) PROTECTOR
 - (M) INDICATOR
 - (N) SUPPLY
 - (O) SELECTOR
 - (P) FIXED PARTS

2-3-1. PRE AMPLIFIER CIRCUIT / プリ・アンプ回路



• Design and specifications subject to changes without notice for improvements.
 • 本機の差及び仕様の一部は、改良のため、予告なく変更することがあります。

- 171 2SK3698L, V
- 172 2SK2468L
- 181.2 2SC3381GR, BL
- 181.7 2SC1845F, E
- 182 2SA1349GR, BL
- 183 2SA992F, E



SYMBOL OF FUNCTION
 (1) EQ
 (2) CONTROL
 (3) SELECTOR

CAPACITORS
 CAPACITANCE VALUE IN P.F.
 ELECTROLYTIC CAPACITORS
 CHARACTERISTICS/
 VALUE
 TOLERANCE
 4-V-28

RESISTORS
 RESISTANCE VALUE IN OHMS
 TOLERANCE
 4-V-28

SYMBOL
 Δ AS SHOWN PART.
 □ AS SHOWN PART.
 ○ AS SHOWN PART.
 ⊕ AS SHOWN PART.
 ⊖ AS SHOWN PART.
 ⊕ ⊖ AS SHOWN PART.

SWITCHES
 6S14C PROCESSOR
 6S14C-B1
 6S14C-B2
 6S14C-B3
 6S14C-B4
 6S14C-B5
 6S14C-B6
 6S14C-B7
 6S14C-B8
 6S14C-B9
 6S14C-B10
 6S14C-B11
 6S14C-B12
 6S14C-B13
 6S14C-B14
 6S14C-B15
 6S14C-B16
 6S14C-B17
 6S14C-B18
 6S14C-B19
 6S14C-B20
 6S14C-B21
 6S14C-B22
 6S14C-B23
 6S14C-B24
 6S14C-B25
 6S14C-B26
 6S14C-B27
 6S14C-B28
 6S14C-B29
 6S14C-B30
 6S14C-B31
 6S14C-B32
 6S14C-B33
 6S14C-B34
 6S14C-B35
 6S14C-B36
 6S14C-B37
 6S14C-B38
 6S14C-B39
 6S14C-B40

Each D.C. voltage shown in this diagram is measured at the load symbol.

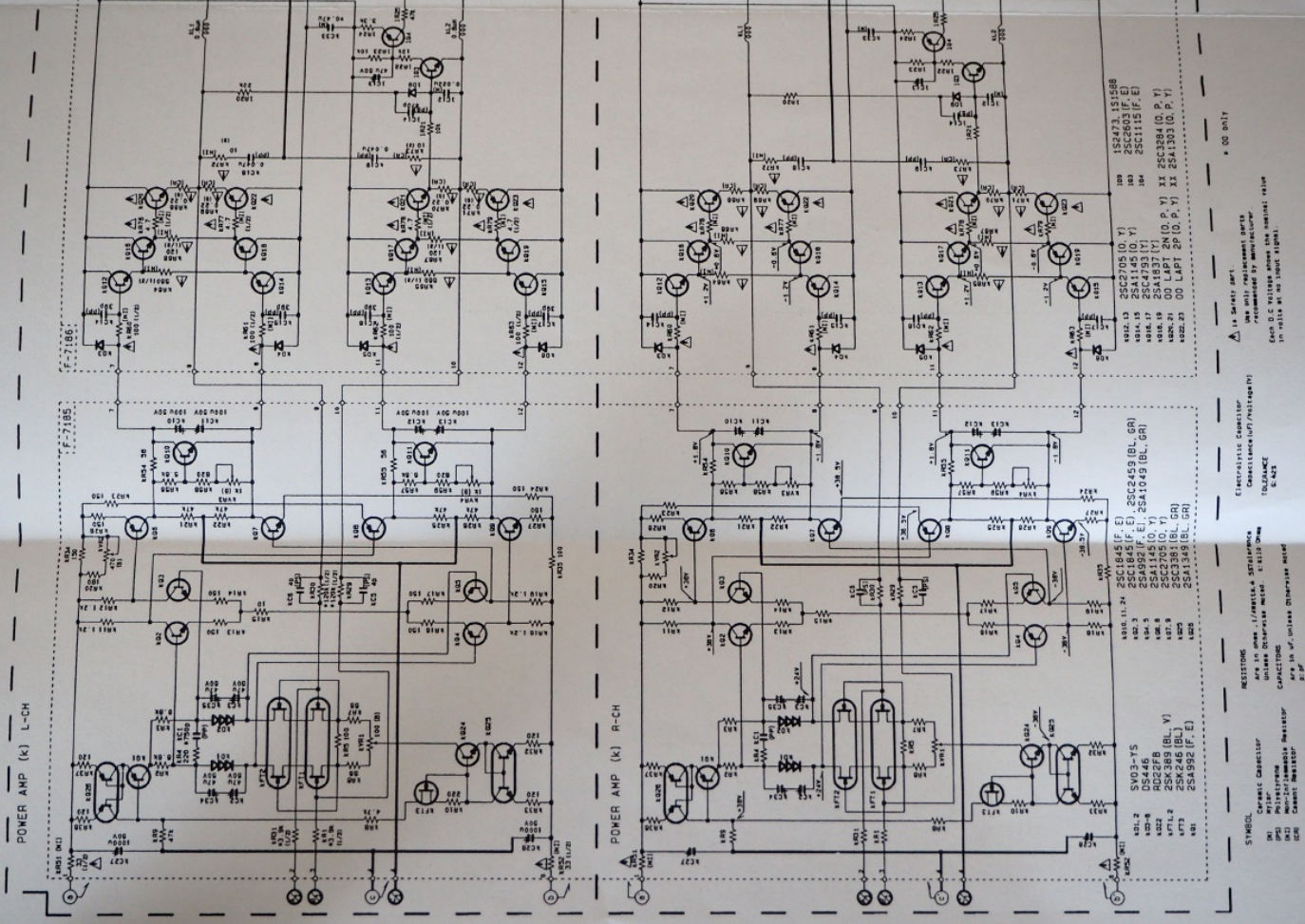
SWITCHES
 6S14C PROCESSOR
 1. ON
 2. OFF
 6S14C-B1
 1. ON
 2. OFF
 6S14C-B2
 1. ON
 2. OFF
 6S14C-B3
 1. ON
 2. OFF
 6S14C-B4
 1. ON
 2. OFF
 6S14C-B5
 1. ON
 2. OFF
 6S14C-B6
 1. ON
 2. OFF
 6S14C-B7
 1. ON
 2. OFF
 6S14C-B8
 1. ON
 2. OFF
 6S14C-B9
 1. ON
 2. OFF
 6S14C-B10
 1. ON
 2. OFF
 6S14C-B11
 1. ON
 2. OFF
 6S14C-B12
 1. ON
 2. OFF
 6S14C-B13
 1. ON
 2. OFF
 6S14C-B14
 1. ON
 2. OFF
 6S14C-B15
 1. ON
 2. OFF
 6S14C-B16
 1. ON
 2. OFF
 6S14C-B17
 1. ON
 2. OFF
 6S14C-B18
 1. ON
 2. OFF
 6S14C-B19
 1. ON
 2. OFF
 6S14C-B20
 1. ON
 2. OFF
 6S14C-B21
 1. ON
 2. OFF
 6S14C-B22
 1. ON
 2. OFF
 6S14C-B23
 1. ON
 2. OFF
 6S14C-B24
 1. ON
 2. OFF
 6S14C-B25
 1. ON
 2. OFF
 6S14C-B26
 1. ON
 2. OFF
 6S14C-B27
 1. ON
 2. OFF
 6S14C-B28
 1. ON
 2. OFF
 6S14C-B29
 1. ON
 2. OFF
 6S14C-B30
 1. ON
 2. OFF
 6S14C-B31
 1. ON
 2. OFF
 6S14C-B32
 1. ON
 2. OFF
 6S14C-B33
 1. ON
 2. OFF
 6S14C-B34
 1. ON
 2. OFF
 6S14C-B35
 1. ON
 2. OFF
 6S14C-B36
 1. ON
 2. OFF
 6S14C-B37
 1. ON
 2. OFF
 6S14C-B38
 1. ON
 2. OFF
 6S14C-B39
 1. ON
 2. OFF
 6S14C-B40
 1. ON
 2. OFF
 6S14C-B41
 1. ON
 2. OFF
 6S14C-B42
 1. ON
 2. OFF
 6S14C-B43
 1. ON
 2. OFF
 6S14C-B44
 1. ON
 2. OFF
 6S14C-B45
 1. ON
 2. OFF
 6S14C-B46
 1. ON
 2. OFF
 6S14C-B47
 1. ON
 2. OFF
 6S14C-B48
 1. ON
 2. OFF
 6S14C-B49
 1. ON
 2. OFF
 6S14C-B50
 1. ON
 2. OFF
 6S14C-B51
 1. ON
 2. OFF
 6S14C-B52
 1. ON
 2. OFF
 6S14C-B53
 1. ON
 2. OFF
 6S14C-B54
 1. ON
 2. OFF
 6S14C-B55
 1. ON
 2. OFF
 6S14C-B56
 1. ON
 2. OFF
 6S14C-B57
 1. ON
 2. OFF
 6S14C-B58
 1. ON
 2. OFF
 6S14C-B59
 1. ON
 2. OFF
 6S14C-B60
 1. ON
 2. OFF
 6S14C-B61
 1. ON
 2. OFF
 6S14C-B62
 1. ON
 2. OFF
 6S14C-B63
 1. ON
 2. OFF
 6S14C-B64
 1. ON
 2. OFF
 6S14C-B65
 1. ON
 2. OFF
 6S14C-B66
 1. ON
 2. OFF
 6S14C-B67
 1. ON
 2. OFF
 6S14C-B68
 1. ON
 2. OFF
 6S14C-B69
 1. ON
 2. OFF
 6S14C-B70
 1. ON
 2. OFF
 6S14C-B71
 1. ON
 2. OFF
 6S14C-B72
 1. ON
 2. OFF
 6S14C-B73
 1. ON
 2. OFF
 6S14C-B74
 1. ON
 2. OFF
 6S14C-B75
 1. ON
 2. OFF
 6S14C-B76
 1. ON
 2. OFF
 6S14C-B77
 1. ON
 2. OFF
 6S14C-B78
 1. ON
 2. OFF
 6S14C-B79
 1. ON
 2. OFF
 6S14C-B80
 1. ON
 2. OFF
 6S14C-B81
 1. ON
 2. OFF
 6S14C-B82
 1. ON
 2. OFF
 6S14C-B83
 1. ON
 2. OFF
 6S14C-B84
 1. ON
 2. OFF
 6S14C-B85
 1. ON
 2. OFF
 6S14C-B86
 1. ON
 2. OFF
 6S14C-B87
 1. ON
 2. OFF
 6S14C-B88
 1. ON
 2. OFF
 6S14C-B89
 1. ON
 2. OFF
 6S14C-B90
 1. ON
 2. OFF
 6S14C-B91
 1. ON
 2. OFF
 6S14C-B92
 1. ON
 2. OFF
 6S14C-B93
 1. ON
 2. OFF
 6S14C-B94
 1. ON
 2. OFF
 6S14C-B95
 1. ON
 2. OFF
 6S14C-B96
 1. ON
 2. OFF
 6S14C-B97
 1. ON
 2. OFF
 6S14C-B98
 1. ON
 2. OFF
 6S14C-B99
 1. ON
 2. OFF
 6S14C-B100
 1. ON
 2. OFF

RD3 0E-B1, B2
 SEL3810A
 SEL3110S
 INDICATOR (n)

607MRX

607MR

2-3-2. MAIN AMPLIFIER CIRCUIT & POWER SUPPLY CIRCUIT / パワーアンプ及びひ



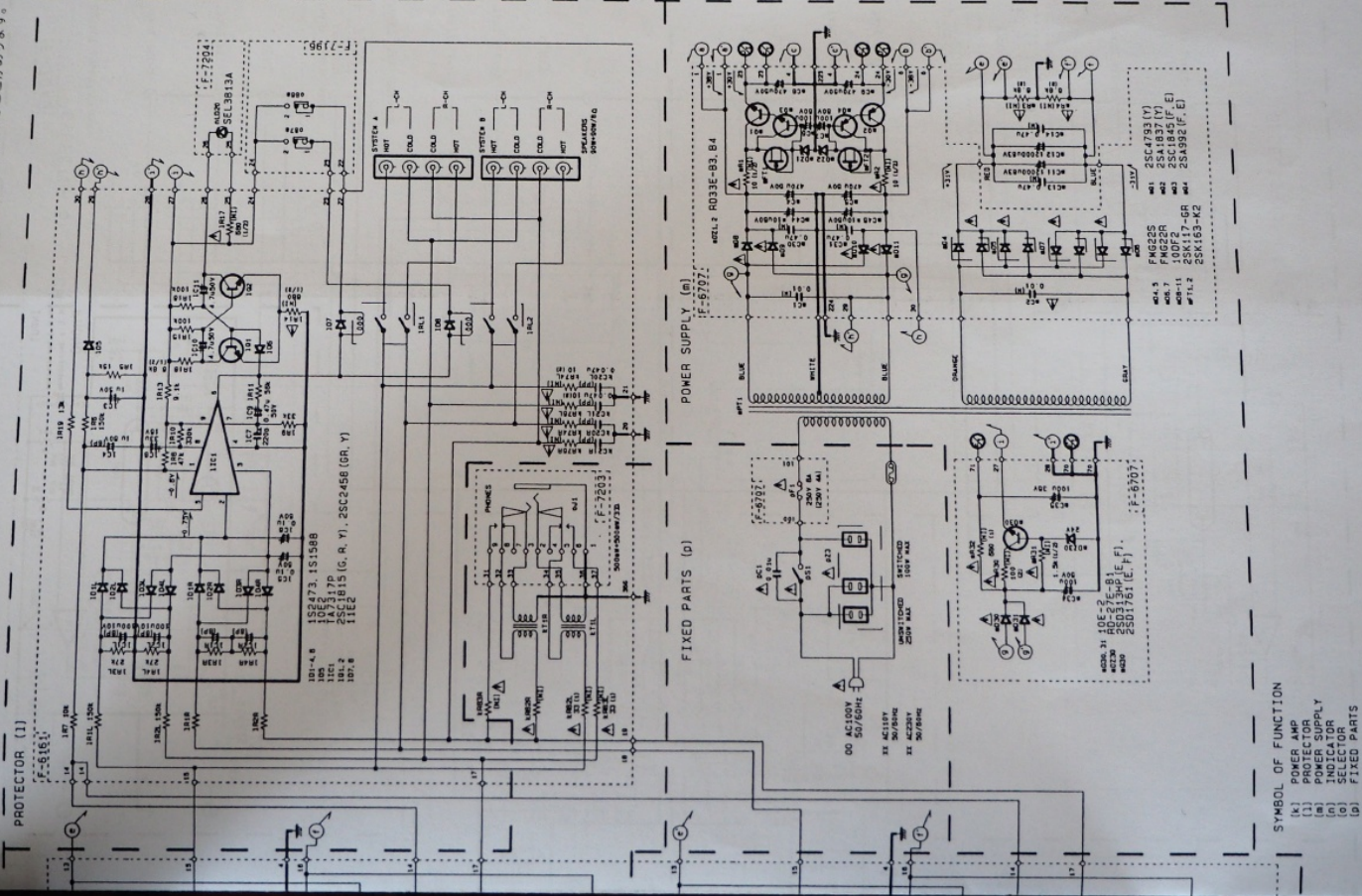
RESISTORS
Are in ohms unless otherwise specified
Unless otherwise noted, resistors are 1% tolerance
CAPACITORS
Unless otherwise noted, capacitors are 5% tolerance
ELECTROLYTIC CAPACITORS
Capacitance in microfarads (μF)
TOLERANCE
is 20%

SYMBOLS
6X4 6X4 diode
6X5 6X5 diode
6AV6 6AV6 pentode
6AV7 6AV7 pentode
6AV8 6AV8 pentode
6AV9 6AV9 pentode
6AV10 6AV10 pentode
6AV11 6AV11 pentode
6AV12 6AV12 pentode
6AV13 6AV13 pentode
6AV14 6AV14 pentode
6AV15 6AV15 pentode
6AV16 6AV16 pentode
6AV17 6AV17 pentode
6AV18 6AV18 pentode
6AV19 6AV19 pentode
6AV20 6AV20 pentode
6AV21 6AV21 pentode
6AV22 6AV22 pentode
6AV23 6AV23 pentode
6AV24 6AV24 pentode
6AV25 6AV25 pentode
6AV26 6AV26 pentode
6AV27 6AV27 pentode
6AV28 6AV28 pentode
6AV29 6AV29 pentode
6AV30 6AV30 pentode
6AV31 6AV31 pentode
6AV32 6AV32 pentode
6AV33 6AV33 pentode
6AV34 6AV34 pentode
6AV35 6AV35 pentode
6AV36 6AV36 pentode
6AV37 6AV37 pentode
6AV38 6AV38 pentode
6AV39 6AV39 pentode
6AV40 6AV40 pentode
6AV41 6AV41 pentode
6AV42 6AV42 pentode
6AV43 6AV43 pentode
6AV44 6AV44 pentode
6AV45 6AV45 pentode
6AV46 6AV46 pentode
6AV47 6AV47 pentode
6AV48 6AV48 pentode
6AV49 6AV49 pentode
6AV50 6AV50 pentode

6.00 ONLY

電源回路

- Design and specifications subject to change without notice for improvements.
- 本機の高圧及び仕様の一部は、改良のため、予告なく変更することがあります。



3. ADJUSTMENT / 調整方法

3-1. AU-907MR and AU-907MRX

- Note / 条件 : 1. an Atmosphere Temp / 周囲温度 18' C-28' C
- 2. VOLUME / 音量調整器 Minimum / 最小
- 3. SPEAKERS switch / スピーカー・スイッチ Pushed On / 入
- 4. POWER AMP. DIRECT OPERATION switch Normal
- パワー・アンプ・ダイレクト操作スイッチ
- 5. And Setting " Direct Current Millivolt Meter " with " Probe " " Normal "
- 併せて、直流小電圧計と探針器を準備します。

3-1-1. Bias Current of Main Amplifiers Adjustment / 主増幅器のバイアス電流調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " terminal and " Hot Bias " terminal.	KVR3	8.8mV±1mV	POWE AMP. DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance Probe between " Cold Out " terminal and " Cold Bias " terminal.	KVR2	8.8mV±1mV	パワー・アンプ ダイレクト操作 "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

3-1-2. Direct Current Off Set Voltage of Main Amplifiers Adjustment / 主増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between " Hot Out " terminal and " Hot Bias " terminal.	KVR4	0mV±30mV	POWE AMP. DIRECT OPE. "NORMAL"
2	Cold side (Inverting) 反転増幅器側	Put the high impedance Probe between " Hot Out " (speaker) terminal and " Cold Out " (speaker) terminal.	KVR1	0mV±30mV	パワー・アンプ ダイレクト操作 "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

3-1-3. Direct Current Off Set Voltage of Pre Amplifiers Adjustment ／ 前置増幅器の直流中心電位調整

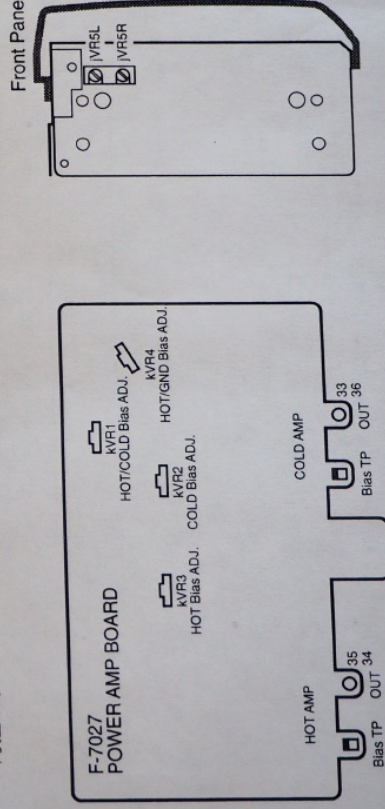
• Adjust the off set voltage of pre amplifiers on both left channel and right channel!!

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Pre Amp. Off Set Voltage 前置増幅器中心 電位調整	Put the high impedance probe between " Hot Out " (speaker) terminal and " Cold Out " (speaker) terminal.	I VR5	0mV±30mV	Input Selector "CD" Input Terminal "Short"
2	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

CAUTION : Must not Touch (Electrically Short) Screw Driver and Chassis if be Using it Made of Metals.
注意 : 金属製のドライバーを使用する場合は、ドライバーの金属部分が調整穴の筐体に触れない様にして下さい。

3-1-4. Pre Heating this amplifier and the Real Adjustment ／ 増幅器の事前加熱（熱平衡状態化）と本調整

- **Note / 条件 :** 1. Input Selector / 入力切り替え " CD "
- 2. Speaker Terminals Connecting Dummy Load at 8Ω on Both Channels.
／ スピーカー端子 8Ωの負荷抵抗器を両方のチャンネルに接続する。
- 3. Put the feed " Sine Wave " signal at 20kHz from " CD " terminals on both channels.
／ 20kHzの正弦波信号を" CD " 端子より両チャンネルに印加します。
- 4. Turn " Volume " knob to clockwise to get 16.8Vr.m.s. (35W / 8Ω) output on speaker terminals
both channels.
両方のスピーカー端子より 16.8V (実効値) [35W / 8 Ω] の出力が得られる様に時計廻り方向にボリュームつまみを廻します。
- 5. Re-adjust from " 3-1-1. " to " 3-1-3. " twice for real adjustment to the amplifier.
本調整の為、" 3-1-1. " から " 3-1-3. " を二度再調整します。



AU-707MR

707MR

607MRX

707MRX

3-2. AU-707MR, AU-607MR, AU-707MRX and AU-607MRX

- Note / 条件: 1. an Atmosphere Temp / 周囲温度 18°C-28°C
 2. VOLUME / 音量調節器 Minimum / 最小
 3. SPEAKERS "A" switch / スピーカー-Aスイッチ Pushed On / 入
 4. POWER AMP. DIRECT OPERATION switch Normal
 パワー・アンプ・ダイレクト操作スイッチ "Normal"
 5. And Setting "Direct Current Millivolt Meter" with "Probe".
 併せて、直流小電圧計と探針器を準備します。

3-2-1. Bias Current of Main Amplifiers Adjustment / 主増幅器のバイアス電流調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between "Hot Out" terminal and "Hot Emitter" terminal.	KVR3	10mV±1mV	POWE AMP DIRECT OPE. "NORMAL" パワー・アンプ ダイレクト操作
2	Cold side (Inverting) 反転増幅器側	Put the high impedance probe between "Cold Out" terminal and "Cold Emitter" terminal.	KVR4	10mV±1mV	"NORMAL" パワー・アンプ ダイレクト操作
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

COMMENTS: Test Pin Array No. 1 is "Cold Out", No. 2 is "Cold Emitter", No. 3 is "Grand", No. 4 is "Hot Emitter", No. 5 is "Hot Out".
 注 釈 : テスト・ピン番号 1 番は "Cold Out", 2 番は "Cold Emitter", 3 番は "Grand", 4 番は "Hot Emitter", 5 番は "Hot Out" です。

3-2-2. Direct Current Off Set Voltage of Main Amplifiers Adjustment / 主増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Hot side (Non Inverting) 非反転増幅器側	Put the high impedance probe between "Hot Out" (speaker) terminal and "GND" terminal.	KVR2	0mV±30mV	POWE AMP DIRECT OPE. "NORMAL" パワー・アンプ ダイレクト操作
2	Cold side (Inverting) 反転増幅器側	Put the high impedance probe between "Cold Out" (speaker) terminal and "Cold Out" (speaker) terminal.	KVR1	0mV±30mV	ダイレクト操作 操作スイッチ "NORMAL"
3	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				

④707MRX

④607MRX

④707MR

④607MR

3-2-3. Direct Current Off Set Voltage of Pre Amplifiers Adjustment ／ 前置増幅器の直流中点電位調整

- Adjust the bias current of main amplifiers on both left channel and right channel.!!
- 左右両側のチャンネルの主増幅器のバイアス電流を調整します。

Step 手順	Subject 項目	Connection 接続方法	Adjustment Point 調整箇所	Adjust for 調整	Remarks 備考
1	Pre Amp. Off Set Voltage 前置増幅器中点 電位調整	Put the high impedance probe between " Hot Out " (Speaker) terminal and " Cold Out " (Speaker) terminal.	JVR5	0mV±30mV	Input Selector "CD" Input Terminal
2	Adjust the bias current of main amplifiers in a similar way on the other channel too. 他方のチャンネルも同様に主増幅器のバイアス電流の調整をします。				"Short"

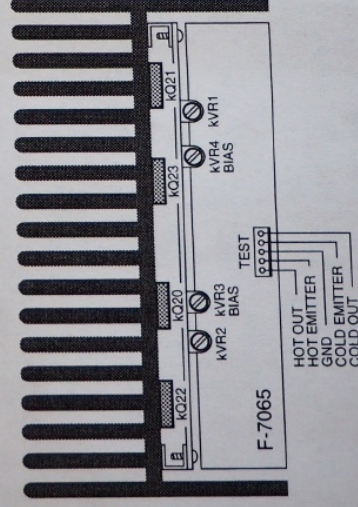
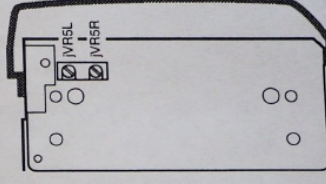
CAUTION : Must not Touch (Electrically Short) Screw Driver and Chassis if be Using it Made of Metals.

注意 : 金属製のドライバーを使用する場合は、ドライバーの金属部分が調整穴の筐体に触れない様にして下さい。

3-2-4. Pre Heating this amplifier and the Real Adjustment ／ 増幅器の事前加熱（熱平衡状態化）と本調整

- **Note / 条件 :** 1. Input Selector / 入力切り替え " CD "
- 2. Speaker Terminals Connecting Dummy Load at 8Ω on Both Channels.
／ スピーカー端子 8Ωの負荷抵抗器を両方のチャンネルに接続する。
- 3. Put the feed " Sine Wave " signal at 20KHz from " CD " terminals on both channels.
／ 20KHzの正弦波信号を" CD " 端子より両チャンネルに印加します。
- 4. Turn " Volume " knob to clockwise to get 16.8Vr.m.s. (35W / 8Ω) output on speaker terminals both channels.
両方のスピーカー端子より 16.8V (実効値) [35W / 8 Ω] の出力が得られる様に時計回り方向にボリュームノブを廻します。
- 5. Re-adjust from " 3-1-1. " to " 3-1-3. " twice for real adjustment to the amplifier.
本調整の為、" 3-1-1. " から " 3-1-3. " 迄を二度再調整します。

Front Panel



Ⓔ607MR

Ⓔ707MR

Ⓔ907MR

Ⓔ607MRX

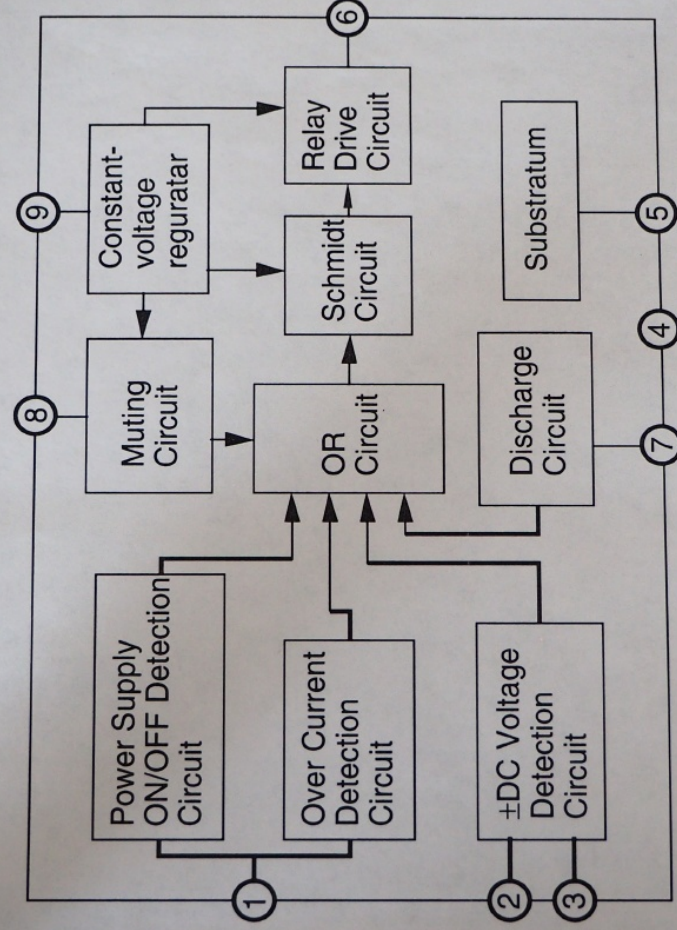
Ⓔ707MRX

Ⓔ907MRX

4 . INTERIOR BLOCK DIAGRAM & TERMINAL FUNCTION OF ICS

/ 使用 IC の内部ブロック図及び端子機能

- TA7317P <SPEAKER PROTECTION CIRCUIT> / スピーカー保護回路

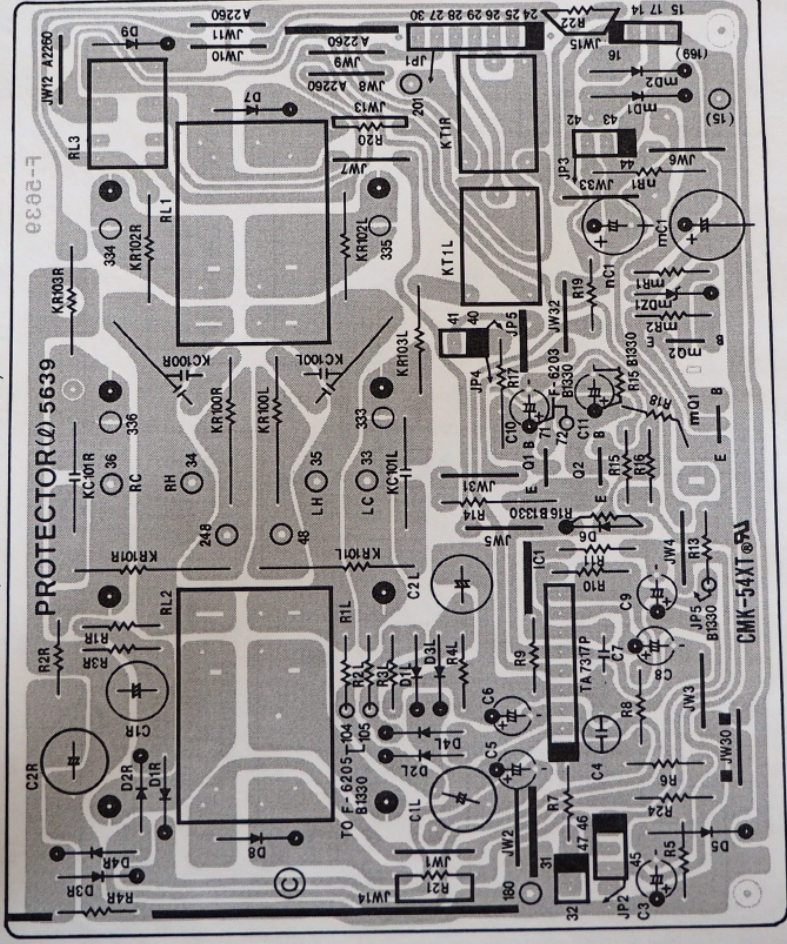


907MRX

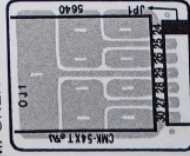
907MR

5. PARTS LOCATION ON BOARD /プリント基板の部品配置図

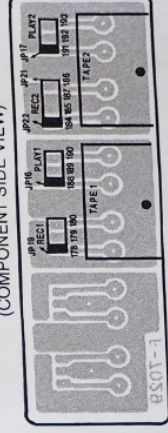
- F-5639 SPEAKER PROTECTION BOARD / スピーカー保護回路基板
(COMPONENT SIDE VIEW)



- F-5640 HEAD-PHONE TERMINAL BOARD
/ヘッド・ホン端子基板
(COMPONENT SIDE VIEW)



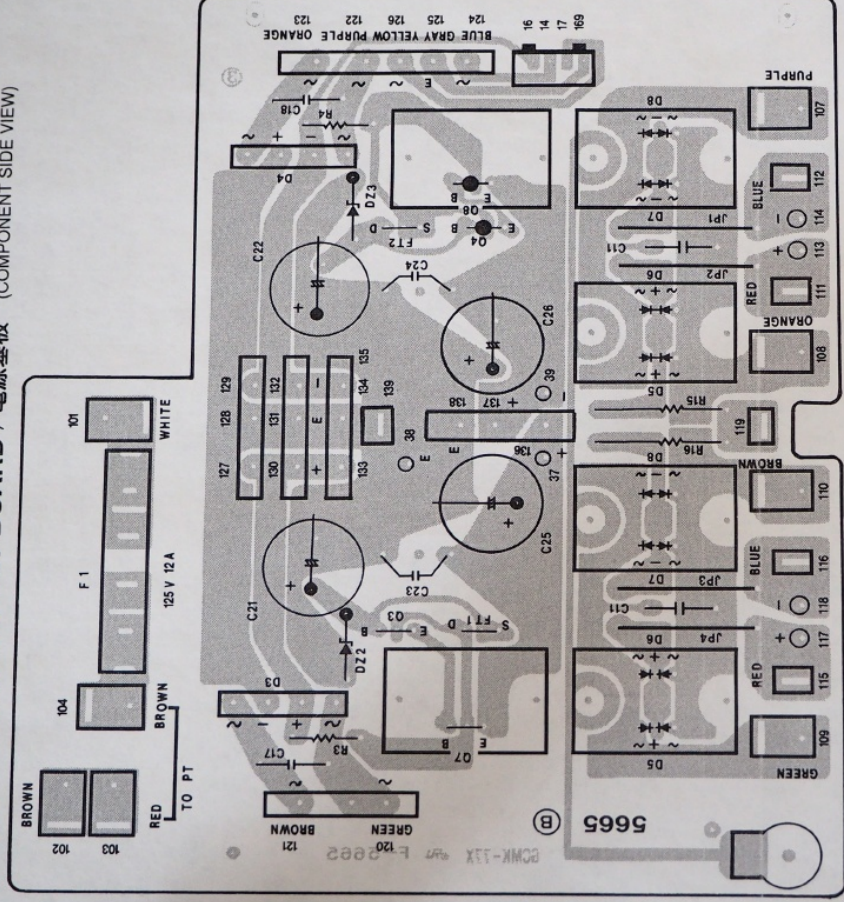
- F-7029 AUDIO TERMINALS BOARD
/ 入力端子基板
(COMPONENT SIDE VIEW)



907MR

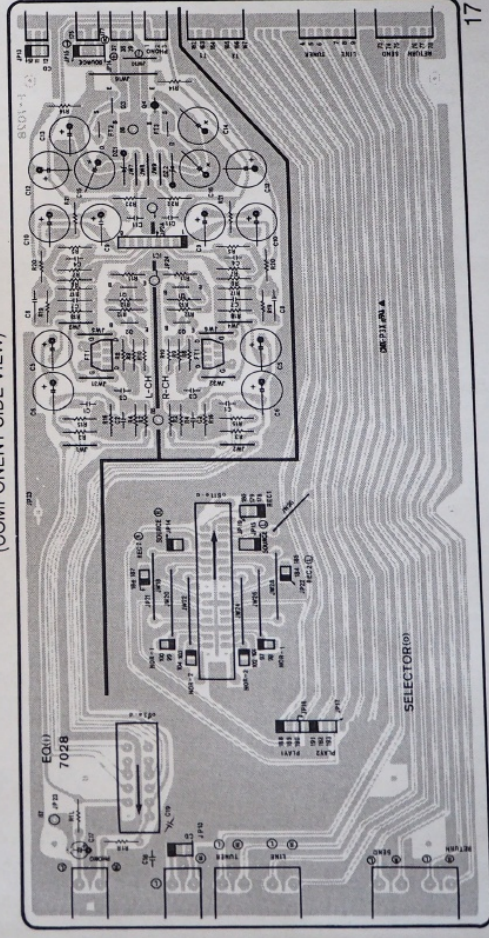
907MRX

● F-5665 POWER SUPPLY BOARD / 電源基板 (COMPONENT SIDE VIEW)



● F-7028 PHONO EQUALIZATION AMPLIFIER BOARD / イコライザー基板

(COMPONENT SIDE VIEW)



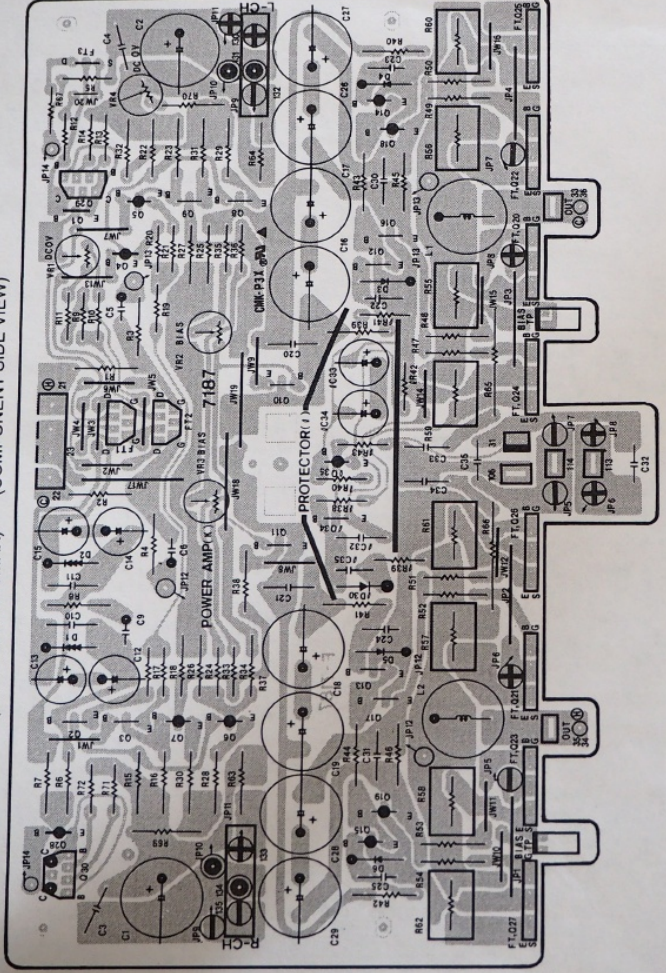
④907MRX

④607MRX

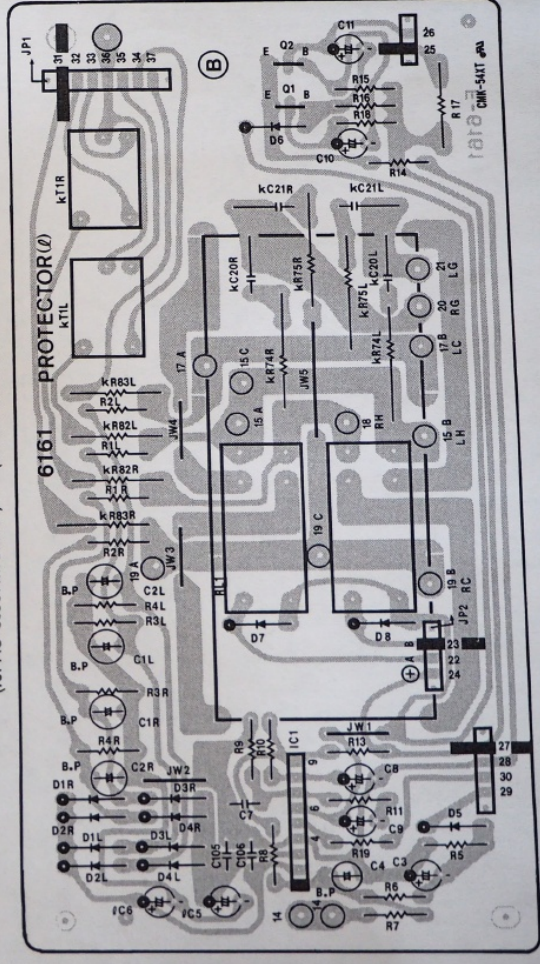
④907MR

④607MR

● F-7187 MAIN AMPLIFIER BOARD / 主増幅回路基板
(for AU-④907MR/MRX) (COMPONENT SIDE VIEW)



● F-6161 SPEAKER PROTECTION BOARD / スピーカー保護回路基板
(for AU-④607MR/MRX) (COMPONENT SIDE VIEW)



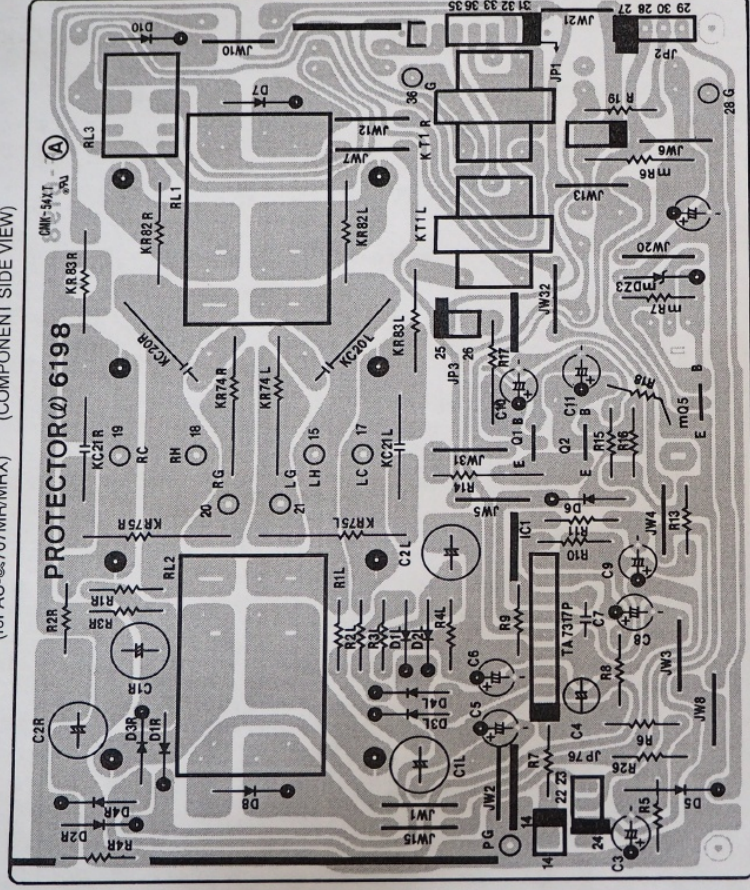
☒607MR

☒707MR

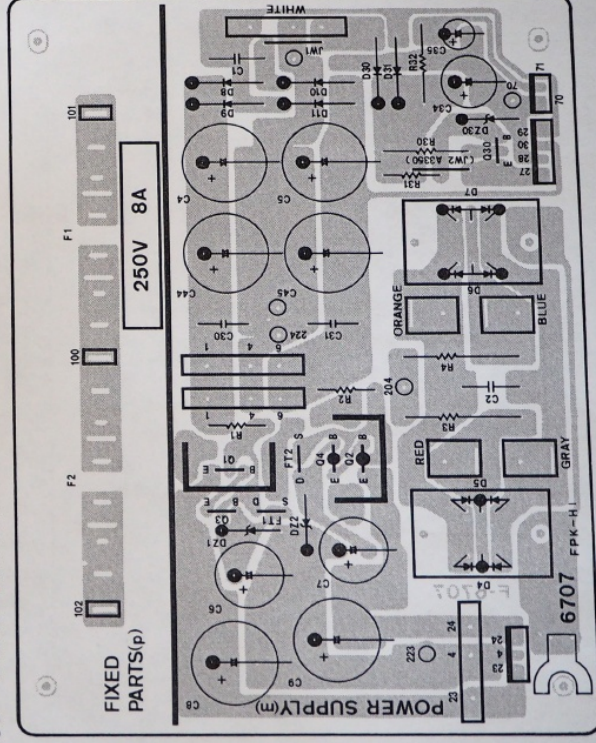
☒607MRX

☒707MRX

● F-6198 SPEAKER PROTECTION BOARD / スピーカー保護回路基板
(for AU-☒707MR/MRX) (COMPONENT SIDE VIEW)



● F-6707 POWER SUPPLY BOARD / 電源基板 (COMPONENT SIDE VIEW)



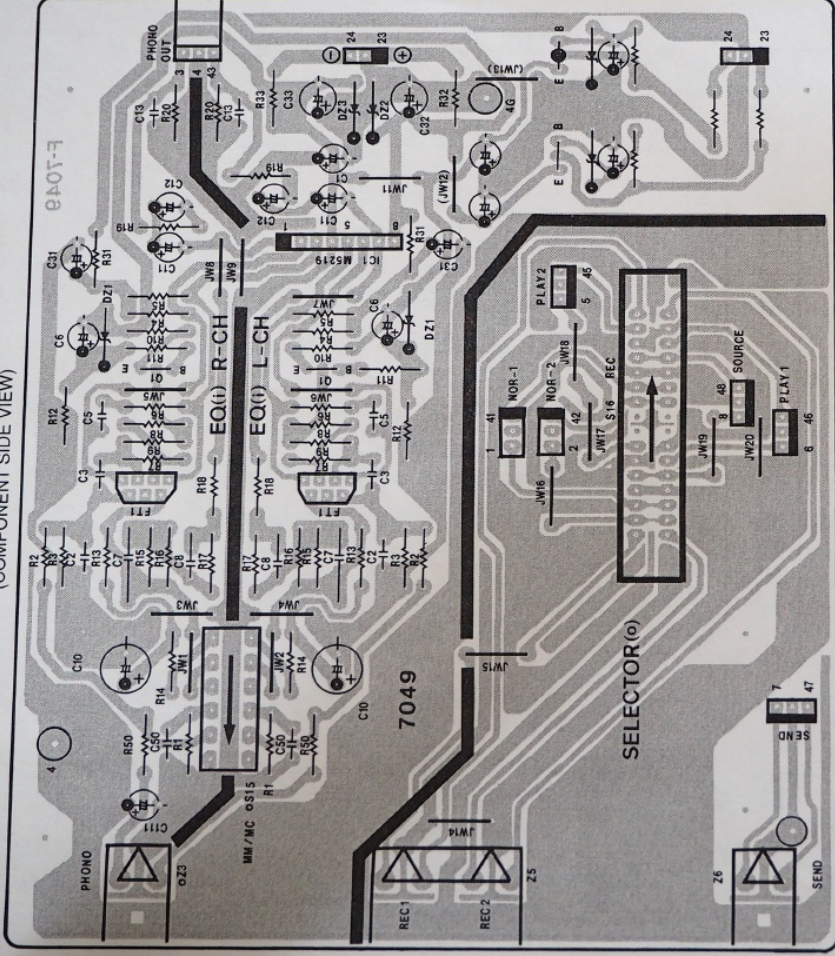
707MRX

607MRX

707MR

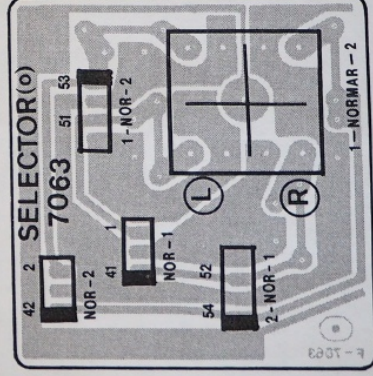
607MR

● F-7049 PHONO EQUALIZATION AMPLIFIER BOARD / イコライザー基板
(COMPONENT SIDE VIEW)



● F-7063 INPUT TERMINALS BOARD / 入力端子基板

(for AU-707MR/MRX & AU-607MR/MRX) (COMPONENT SIDE VIEW)



607MR

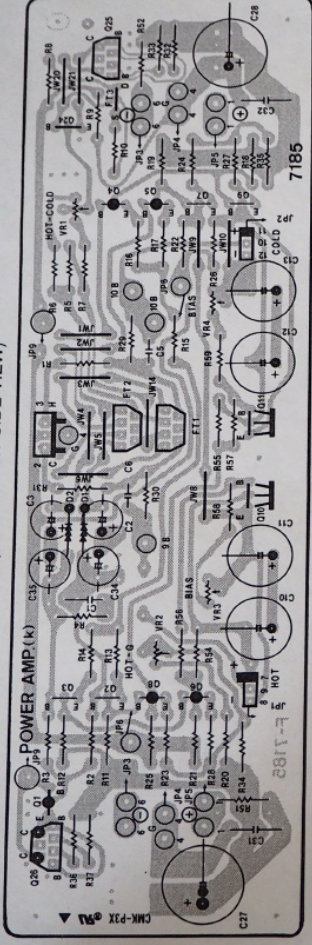
707MR

607MRX

707MRX

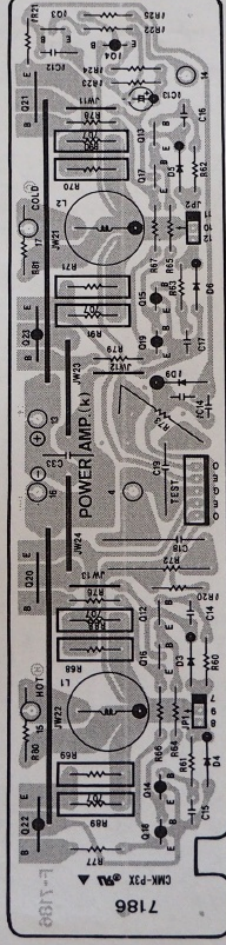
● F-7185 DRIVER STAGE of MAIN AMPLIFIER BOARD / 主增幅回路基板

(COMPONENT SIDE VIEW)



● F-7186 POWER STAGE of MAIN AMPLIFIER BOARD / 主增幅回路基板

(COMPONENT SIDE VIEW)



④907MRX

④707MRX

④607MRX

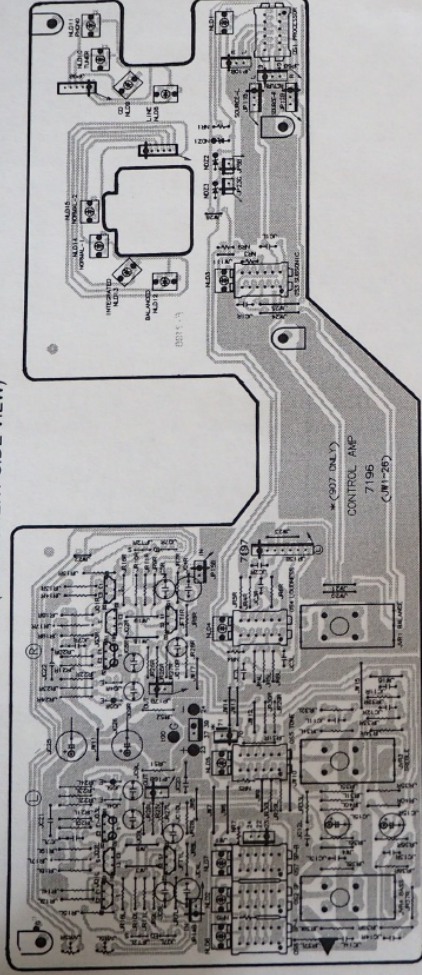
④907MR

④707MR

④607MR

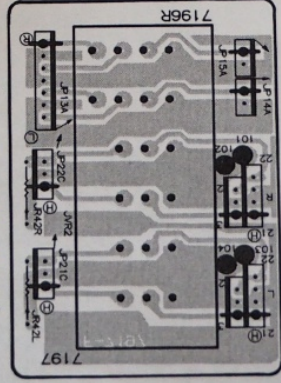
● F-7196 PRE AMPLIFIER BOARD / 前置増幅回路基板

(COMPONENT SIDE VIEW)



● F-7197 MASTER VOLUME BOARD / 音量調節器基板

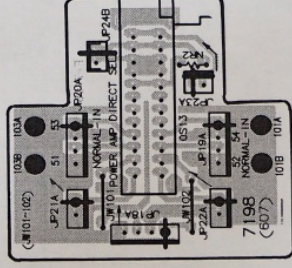
(COMPONENT SIDE VIEW)



● F-7198 P.-AMP. DIRECT SELECT BOARD / パワー・アンプ・ダイレクト切換基板

(for AU-④607MR/MRX)

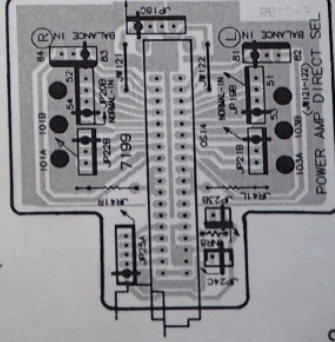
(COMPONENT SIDE VIEW)



● F-7199 P.-AMP. DIRECT SELECT BOARD / パワー・アンプ・ダイレクト切換基板

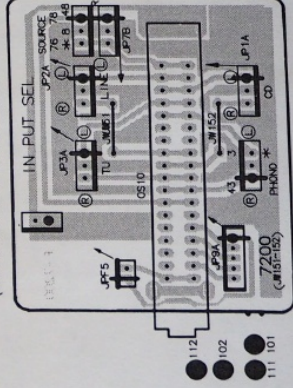
(for AU-④907MR/MRX & AU-④707MR/MRX)

(COMPONENT SIDE VIEW)



● F-7200 INPUT SELECT BOARD / 入力切換基板

(COMPONENT SIDE VIEW)



607MR

707MR

907MR

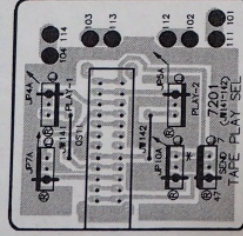
607MRX

707MRX

907MRX

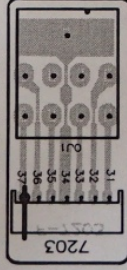
- F-7201 TAPE MONITOR SELECT BOARD / テープ系入力切換基板

(COMPONENT SIDE VIEW)



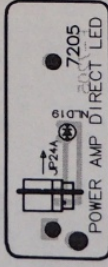
- F-7203 HEAD-PHONE TERMINAL BOARD / ヘッド・ホン端子基板

(COMPONENT SIDE VIEW)



- F-7205 POWER / PROTECTION INDICATE BOARD / 電源・保護表示基板

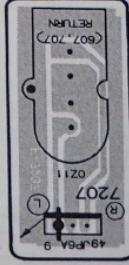
(COMPONENT SIDE VIEW)



- F-7207 INPUT TERMINALS BOARD / 入力端子基板

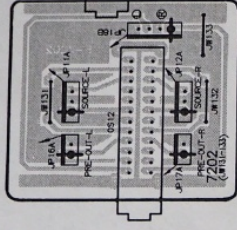
(for AU-607MR/MRX & AU-607MR/MRX)

(COMPONENT SIDE VIEW)



- F-7202 SOURCE P.-AMP. DIRECT SELECT BOARD / ソース・パワー・ダイレクト切換基板

(COMPONENT SIDE VIEW)



- F-7204 DIRECT INDICATE BOARD / 表示基板

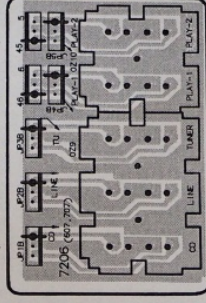
(COMPONENT SIDE VIEW)



- F-7206 INPUT TERMINALS BOARD / 入力端子基板

(for AU-607MR/MRX & AU-607MR/MRX)

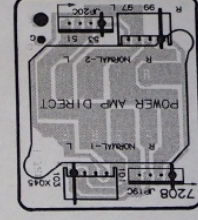
(COMPONENT SIDE VIEW)



- F-7208 INPUT TERMINALS BOARD / 入力端子基板

(for AU-607MR/MRX)

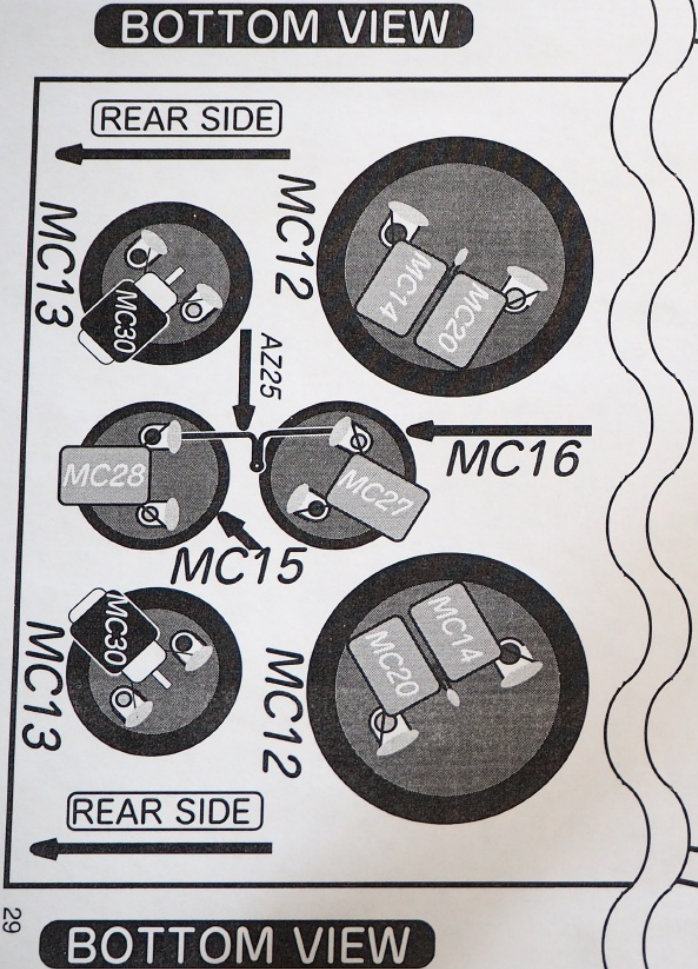
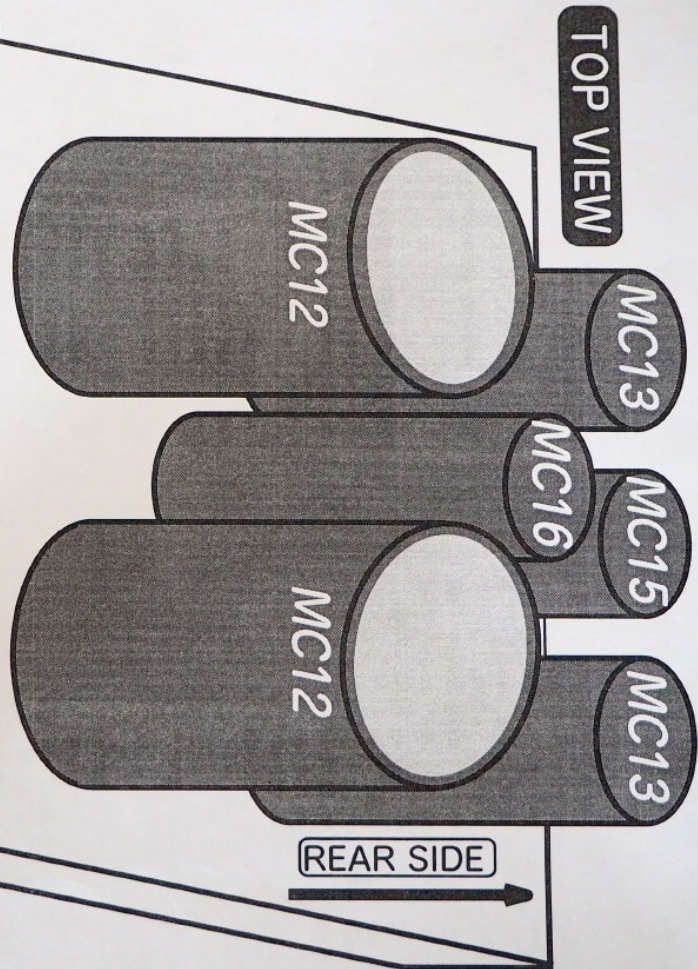
(COMPONENT SIDE VIEW)



907MR

907MRX

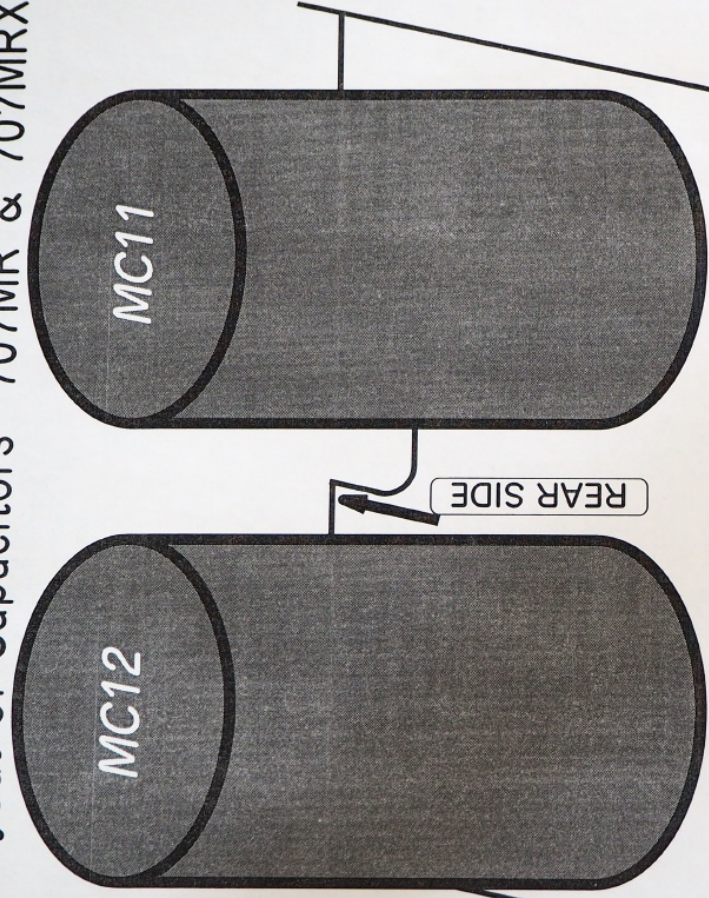
● Layout of Capacitors 907MR & 907MRX



Ⓢ707MR

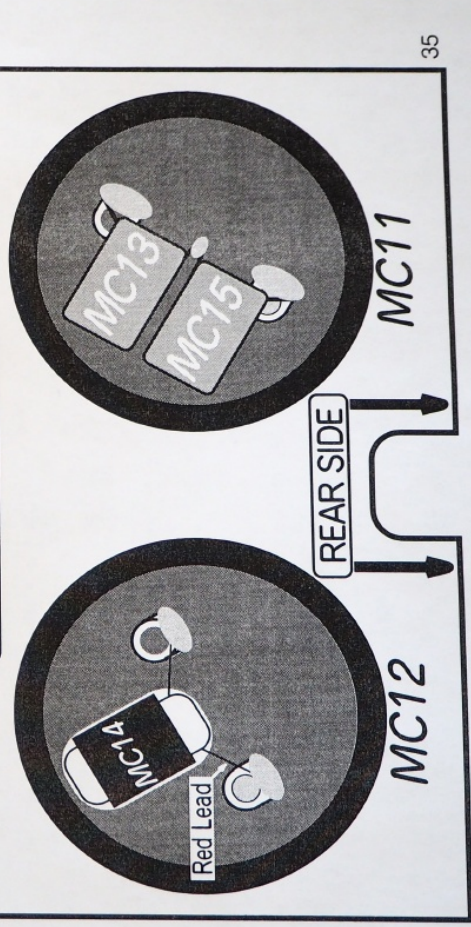
- Layout of Capacitors 707MR & 707MRX

Ⓢ707MRX



TOP VIEW

BOTTOM VIEW



607MRX 607MR

● Layout of Capacitors 607MR & 607MRX

