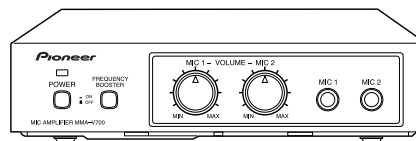


Service Manual

Pioneer



ORDER NO.
TRT1122

MIC AMPLIFIER

MMA-V700

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	Remarks
	MMA-V700		
Z/ES	○	DC 12V	

CONTENTS

1. EXPLODED VIEWS AND PARTS LIST	2
2. SCHEMATIC DIAGRAM	4
3. PCB CONNECTION DIAGRAM	6
4. PCB PARTS LIST	7
5. PANEL FACILITIES AND SPECIFICATIONS	8

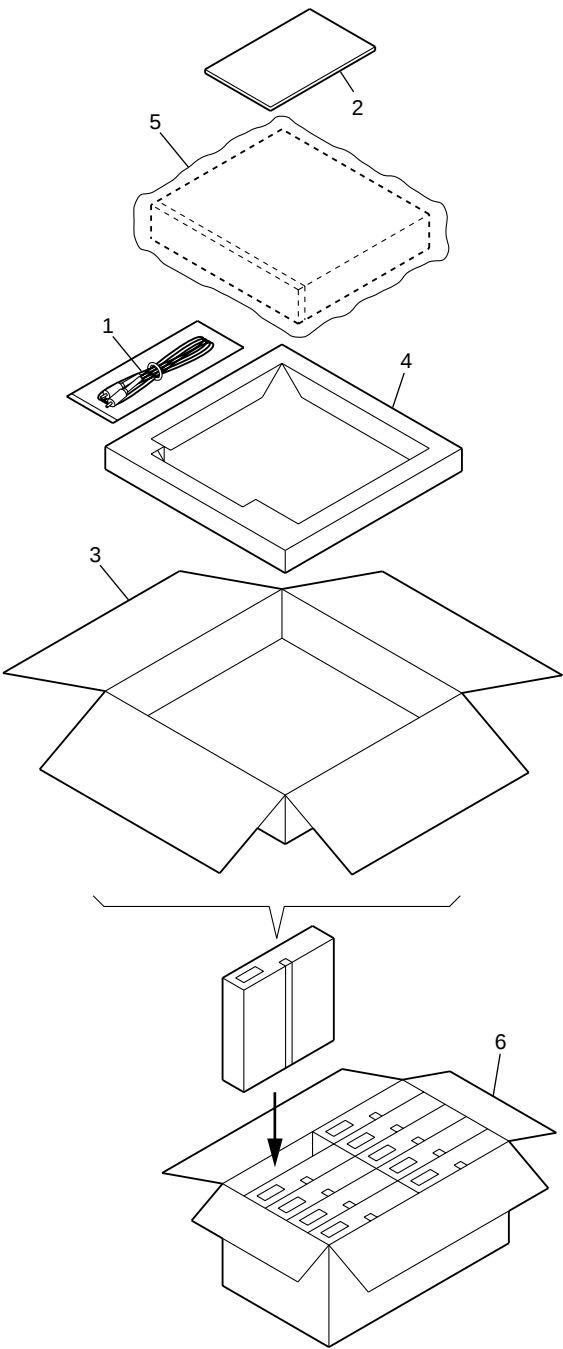
PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan
PIONEER ELECTRONICS SERVICE, INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A.
PIONEER ELECTRONIC (EUROPE) N.V. Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 501 Orchard Road, #10-00 Wheelock Place, Singapore 238880
© PIONEER ELECTRONIC CORPORATION 1998

O – IZC SEPT. 1998 Printed in Japan

1. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.
● Screws adjacent to $\blacktriangledown$ mark on the product are used for disassembly.

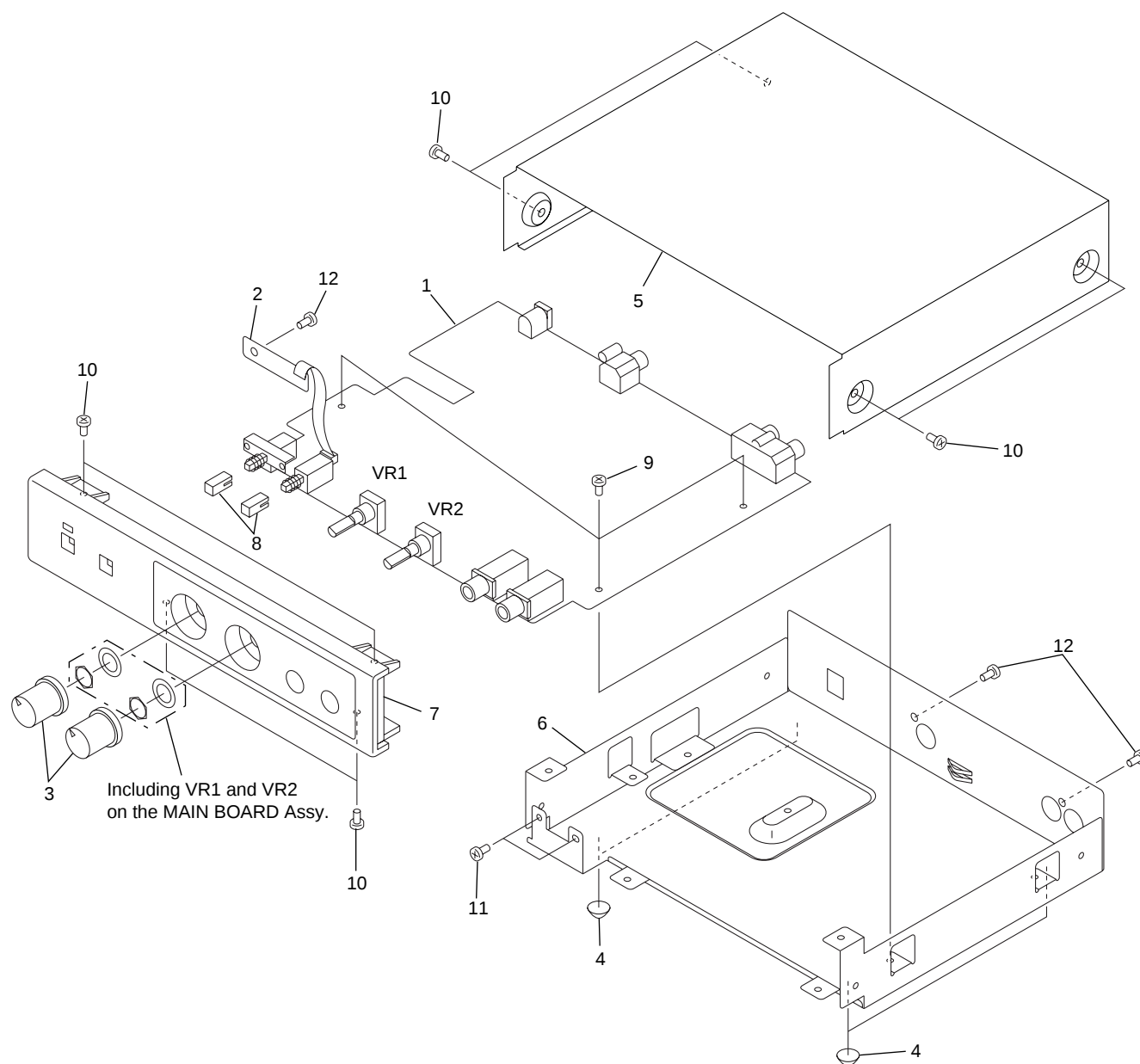
1.1 PACKING



● PACKING PARTS LIST

Mark	No.	Description	Part No.
	1	Microphone Output Cable	MDE1066
	2	Operating Instructions (English/Chinese)	MRB1026
	3	Packing Case	MHG1206
	4	Inner Partition	MHG1207
	5	Mirror Mat Sheet	MHL1021
	6	Master Carton	MHP1095

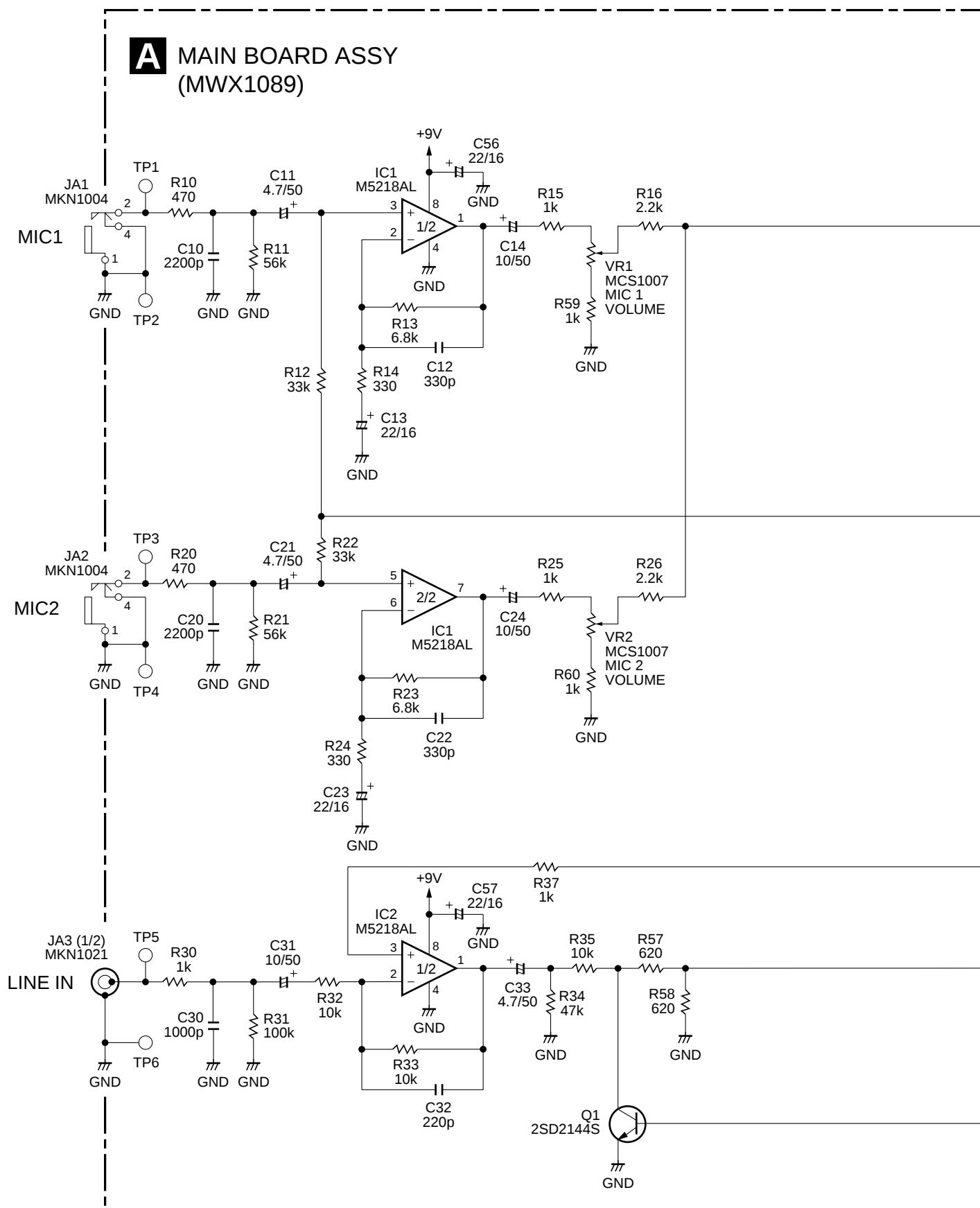
1.2 MAIN SECTION



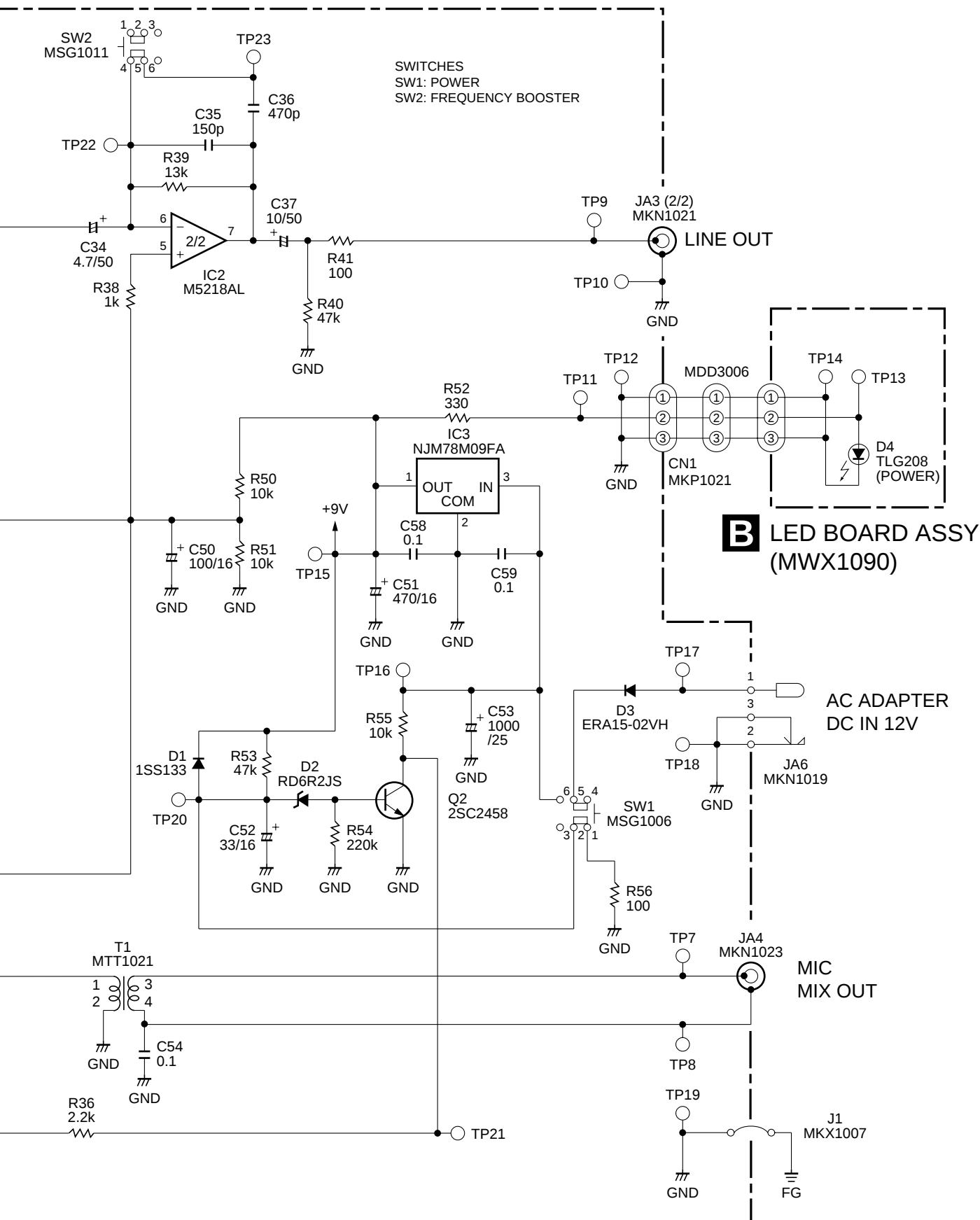
● MAIN SECTION PARTS LIST

Mark	No.	Description	Part No.
NSP	1	MAIN Board Assy	MWX1089
	2	LED Board Assy	MWX1090
	3	Rotary Knob	AAB1063
	4	Foot	MEP1043
	5	Bonnet	MNA1065
	6	Chassis	MNA1117
	7	Panel	MNK1279
	8	Button	MNK3082
	9	Screw	BBZ30P060FMC
	10	Screw	BBZ30P060FZK
	11	Screw	BMZ30P060FMC
	12	Screw	BPZ30P080FZK

2. SCHEMATIC DIAGRAM



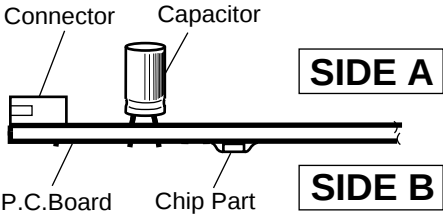
Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".



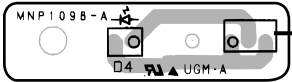
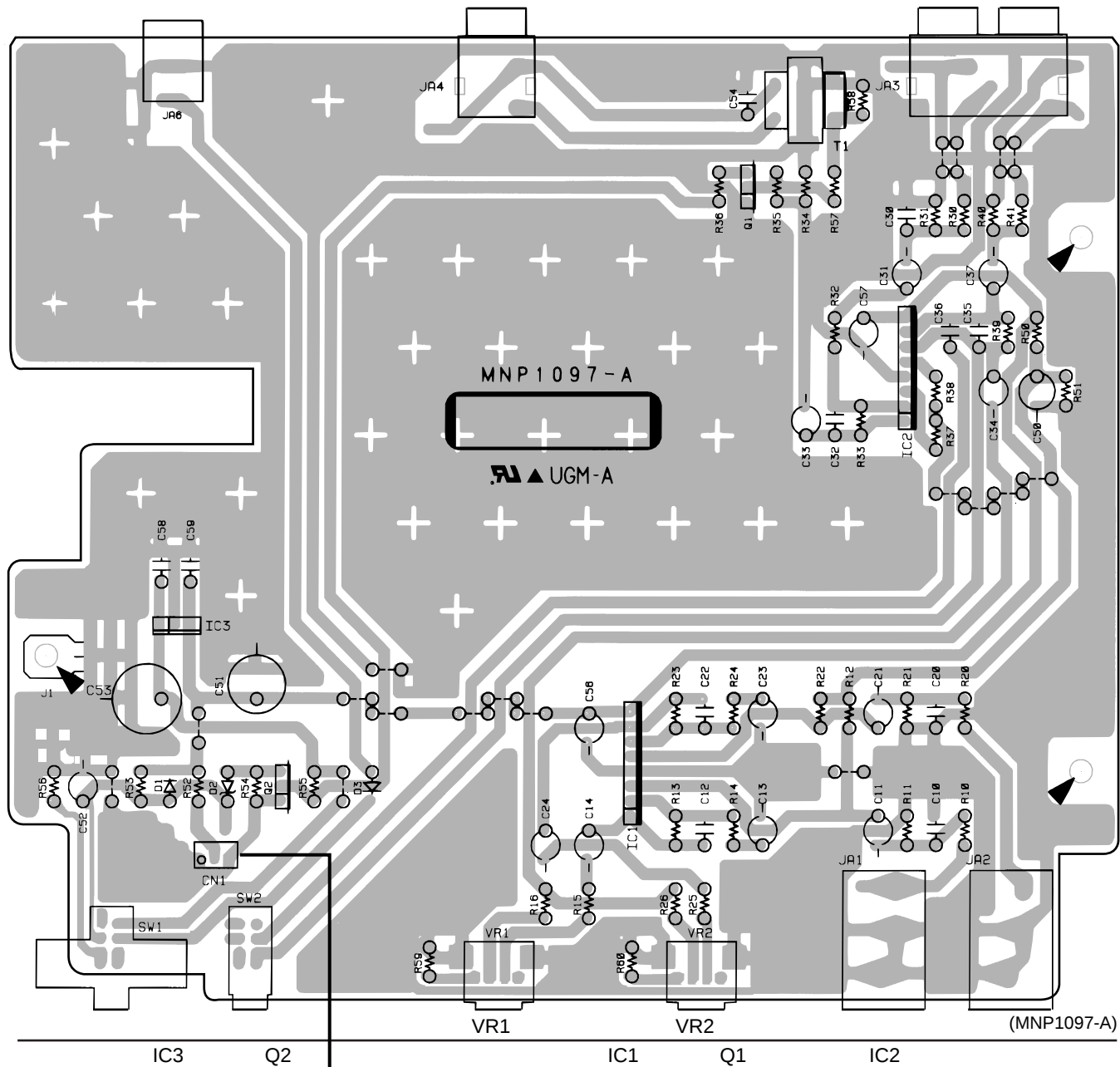
3. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. View point of PCB diagrams.



A MAIN BOARD ASSY



B LED BOARD ASSY

SIDE B

4. PCB PARTS LIST

NOTES: ●Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

●The Δ mark found on some component parts indicates the importance of the safety factor of the part.

Therefore, when replacing, be sure to use parts of identical designation.

●When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560 Ω	$\rightarrow$	56×10^1	$\rightarrow$	561		RD1/4PU	5 6 1	J
47k Ω	$\rightarrow$	47×10^3	$\rightarrow$	473		RD1/4PU	4 7 3	J
0.5 Ω	$\rightarrow$	R50				RN2H	R 5 0	K
1 Ω	$\rightarrow$	1R0				RS1P	1 R 0	K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	$\rightarrow$	562×10^1	$\rightarrow$	5621		RN1/4PC	5 6 2 1	F
----------------	---------------	-------------------	---------------	------	-------	---------	---	---

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
------	-----	-------------	----------	------	-----	-------------	----------

LIST OF ASSEMBLIES

NSP	COMPLEX ASSY	MWM1070
NSP	└ MAIN BOARD ASSY	MWX1089
NSP	└ LED BOARD ASSY	MWX1090

OTHERS

CN1	CONNECTOR	MKP1021
J1	EARTH TERMINAL	MKX1007
JA1,JA2	JACK	MKN1004
JA6	JACK	MKN1019
JA3	JACK	MKN1021
JA4	JACK	MKN1023

A MAIN BOARD ASSY

SEMICONDUCTORS

IC1,IC2	M5218AL
IC3	NJM78M09FA
Q2	2SC2458
Q1	2SD2144S
D3	ERA15-02VH
D2	RD6R2JS
D1	1SS133

TRANSFORMER

T1	MTT1021
----	---------

SWITCHES

SW1	MSG1006
SW2	MSG1011

CAPACITORS

C14,C24,C31,C37	CEAS100M50
C50	CEAS101M16
C53	CEAS102M25
C13,C23,C56,C57	CEAS220M16
C52	CEAS330M16
C11,C21,C33,C34	CEAS4R7M50
C51	CEAS471M16
C54,C58,C59	CGCYX104M25
C30	CKCYB102K50
C35	CKCYB151K50
C32	CKCYB221K50
C10,C20	CKCYB222K50
C12,C22	CKCYB331K50
C36	CKCYB471K50

RESISTORS

VR1,VR2	MCS1007
Other Resistors	RD1/4PU J

B LED BOARD ASSY

SEMICONDUCTOR

D4	TLG208
----	--------

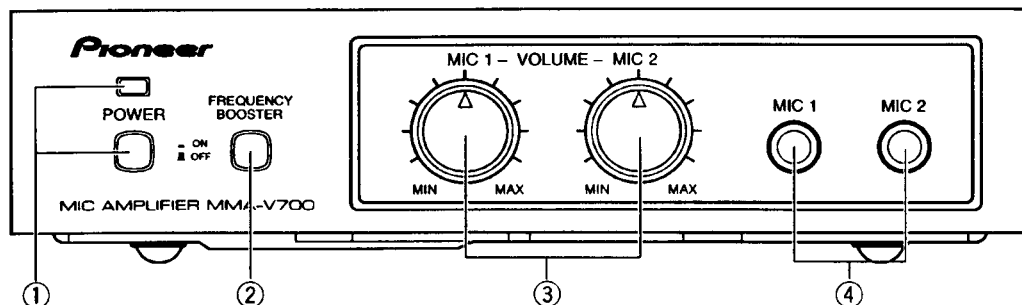
OTHERS

PARALLEL CORD	MDD3006
LED BOARD	MNP1098

5. PANEL FACILITIES AND SPECIFICATIONS

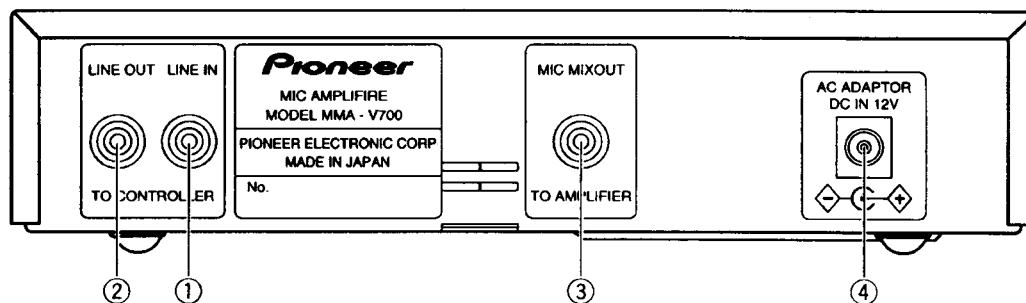
5.1 PANEL FACILITIES

FRONT



- ① **POWER switch/indicator**
Press to turn on power and indicator.
Press again to turn off power and indicator.
- ② **FREQUENCY BOOSTER**
Press this switch to compensate for degradation of high-frequency sound when a long microphone output cable is used.
- ③ **MIC VOLUME controls**
Use to adjust sound volume of microphones connected to the MIC input jacks.
- ④ **MIC input jacks (MIC 1, MIC 2)**
Connect microphones here.

REAR



- ① **LINE IN connector**
Connect to controller's LINE OUT microphone connector.
- ② **LINE OUT connector**
Connect to controller's LINE IN microphone connector.
- ③ **MIC MIXOUT connector**
Connect to mixing amplifier's microphone input connector.
- ④ **DC IN 12V jack**

5.2 SPECIFICATIONS

Input 2 microphone systems

- Sensitivity/Impedance 1mV/20 kΩ

Output 1 microphone system

- Level/Impedance 1mV/600 Ω

Power requirements DC 12V/300mA

Dimensions 210 (W) x 200 (D) x 50 (H) mm

Weight 790g

Accessories

Microphone output cable (RCA ↔ RCA) 1

Operating Instructions 1

NOTE:

The above specifications and appearance may be improved without prior notifications.

■ Accessories

- Microphone output cable x 1
(MDE1066)
- Operating Instructions x 1

