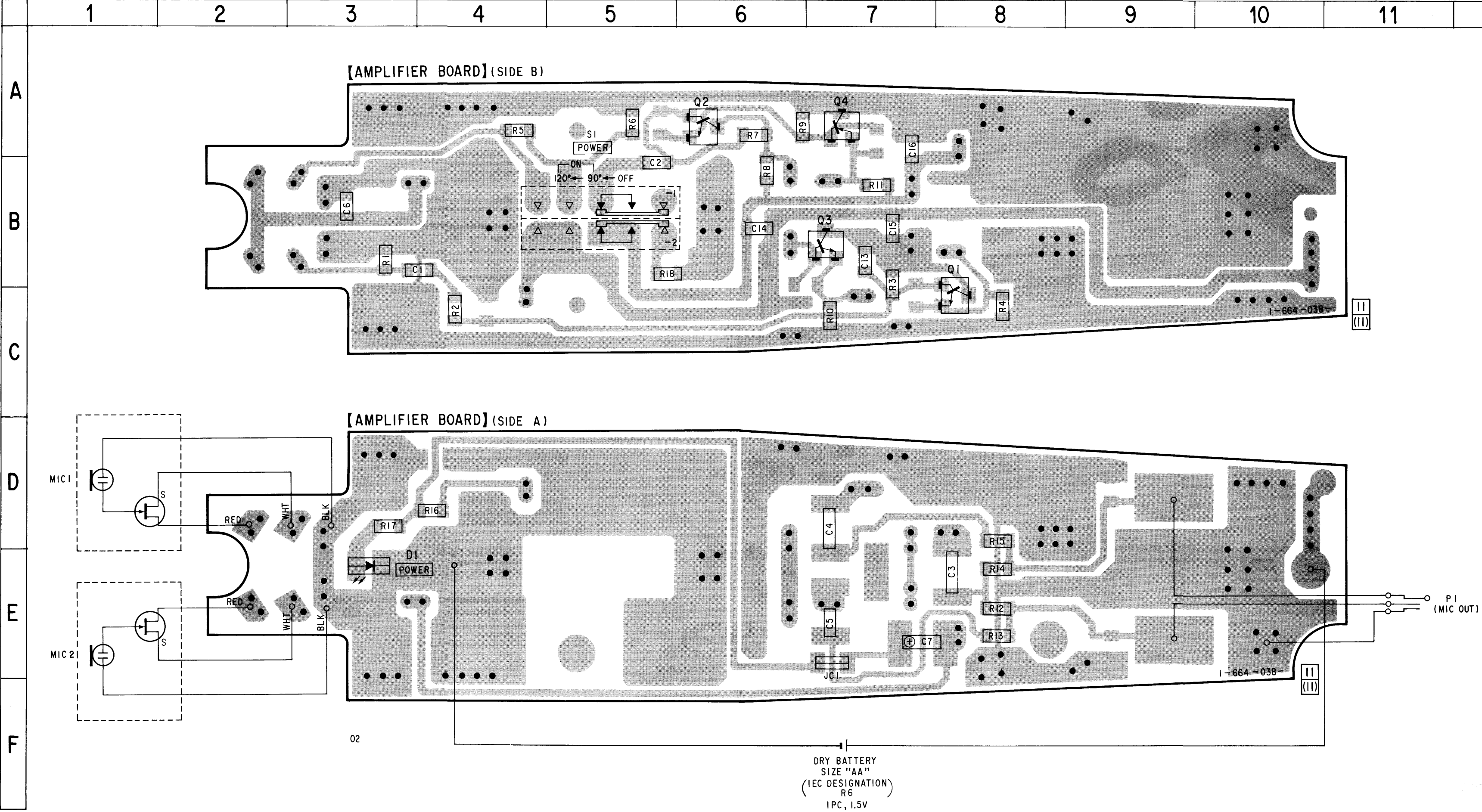


SECTION 3
DIAGRAMS

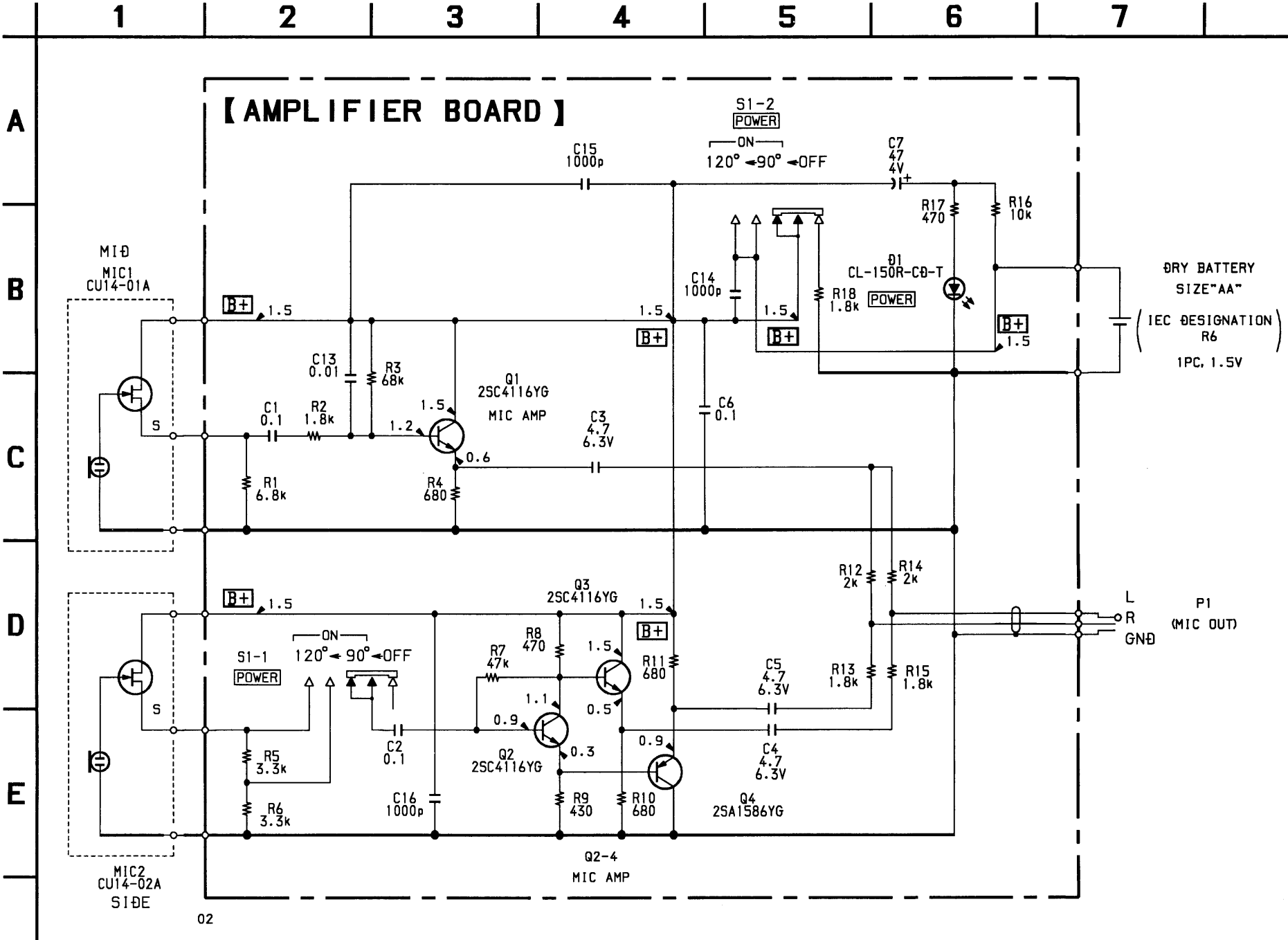
3-1. PRINTED WIRING BOARDS

● SEMICONDUCTOR LOCATION

Ref. No.	Location
D1	E-3
Q1	C-8
Q2	A-6
Q3	B-7
Q4	A-7



3-2. SCHEMATIC DIAGRAM

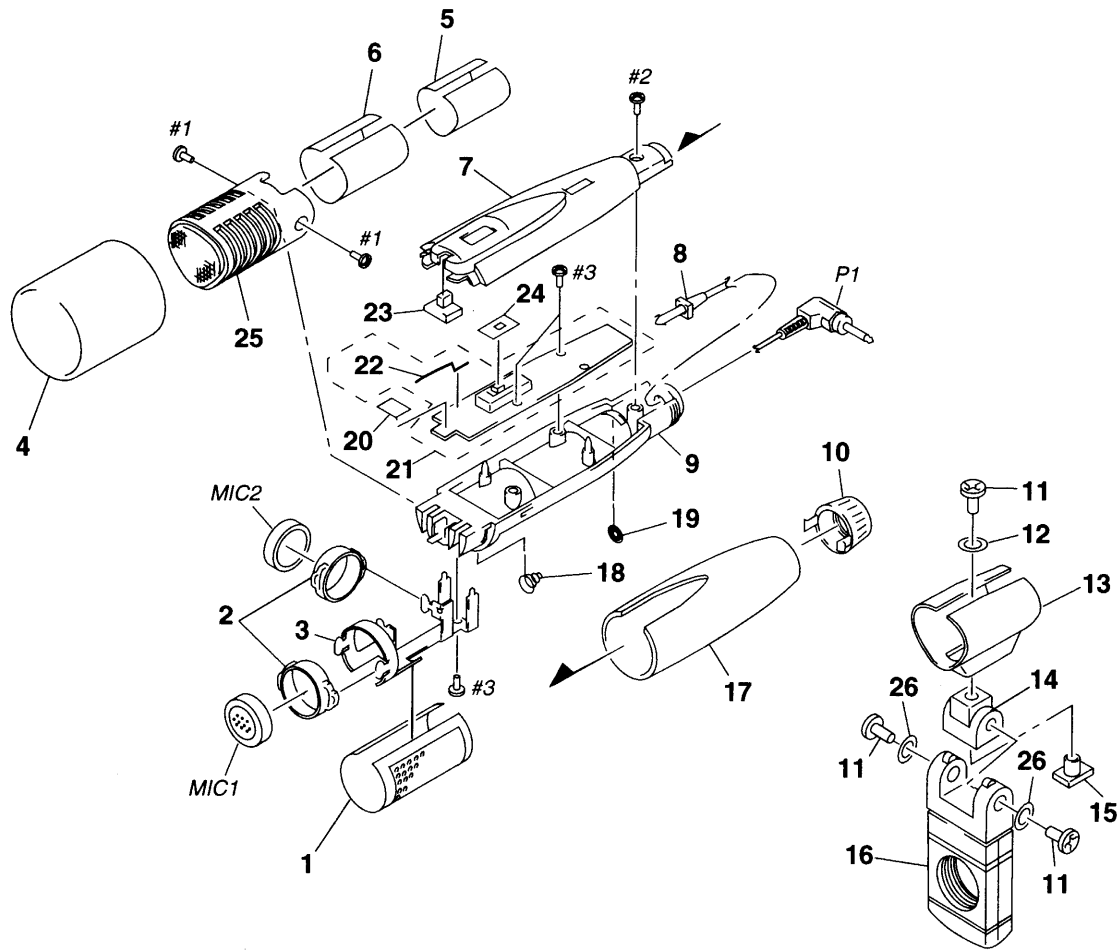


- Note :**
- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
 - **B+** : B+ Line
 - Power voltage is dc 1.5V and fed with regulated dc power supply from battery terminal.
 - Voltage and waveforms are dc with respect to ground under no-signal conditions.
 - Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$). Voltage variations may be noted due to normal production tolerances.

SECTION 4
EXPLODED VIEW

NOTE :

- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2-545-022-01	COVER, SHIELD		16	X-2542-139-1	GRIP ASSY, HOLDER	
2	2-542-250-01	SUSPENDER		17	2-545-023-01	GRIP	
3	2-545-021-01	BRACKET, MICROPHONE HOLDING		18	2-544-798-01	TERMINAL, MINUS	
4	2-545-045-01	SCREEN, WINDOW		19	2-544-797-01	TERMINAL, PLUS	
5	2-545-020-01	SCREEN, SIDE		20	3-831-441-XX	CUSHION	
6	2-545-018-01	NET, SIDE		* 21	A-4542-426-A	AMPLIFIER BOARD, COMPLETE	
7	2-545-025-01	COVER, SWITCH		22	2-532-245-01	SPRING	
* 8	2-135-236-01	BUSHING		23	2-545-030-01	WINDOW, LED	
9	2-545-024-01	CHASSIS		24	3-007-144-01	SHEET, BLIND	
10	2-545-027-01	CAP		25	X-2542-137-1	MIC CASE ASSY	
11	2-532-252-01	SCREW, HOLDER		26	3-701-442-21	WASHER, 4.5	
12	3-701-442-01	WASHER, POLYETHYLENE		MIC1	8-814-271-00	MICROPHONE, BUILT-IN CU14-01A	
13	2-545-028-01	HOLDER		MIC2	8-814-271-10	MICROPHONE, BUILT-IN CU14-02A	
14	2-532-251-01	JOINT		P1	1-696-446-11	CORD, MICROPHONE (2 CORE) (MIC OUT)	
15	2-532-261-01	NUT, JOINT					

ECM-MS907

AMPLIFIER

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal oxide-film resistor
F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref. No.	Part No.	Description	Remark
*	A-4542-426-A	AMPLIFIER BOARD, COMPLETE *****	
	2-532-245-01	SPRING	
		< CAPACITOR >	
C1	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C2	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C3	1-128-309-11	ELECT 4.7uF	20% 6.3V
C4	1-128-309-11	ELECT 4.7uF	20% 6.3V
C5	1-128-309-11	ELECT 4.7uF	20% 6.3V
C6	1-164-360-11	CERAMIC CHIP 0.1uF	16V
C7	1-104-908-11	TANTAL. CHIP 47uF	20% 4V
C13	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C14	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C15	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
C16	1-162-964-11	CERAMIC CHIP 0.001uF	10% 50V
		< DIODE >	
D1	8-719-989-22	LED CL-150R-CD (POWER)	
		< JUMPER RESISTOR >	
JC1	1-216-295-00	METAL, CHIP 0	5% 1/10W
		< TRANSISTOR >	
Q1	8-729-230-63	TRANSISTOR 2SC4116-YG	
Q2	8-729-230-63	TRANSISTOR 2SC4116-YG	
Q3	8-729-230-63	TRANSISTOR 2SC4116-YG	
Q4	8-729-230-60	TRANSISTOR 2SA1586-YG	
		< RESISTOR >	
R1	1-216-831-11	METAL CHIP 6.8K	5% 1/16W
R2	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
R3	1-216-843-11	METAL CHIP 68K	5% 1/16W
R4	1-216-819-11	METAL CHIP 680	5% 1/16W
R5	1-216-827-11	METAL CHIP 3.3K	5% 1/16W
R6	1-216-827-11	METAL CHIP 3.3K	5% 1/16W
R7	1-216-841-11	METAL CHIP 47K	5% 1/16W
R8	1-216-817-11	METAL CHIP 470	5% 1/16W
R9	1-218-482-11	METAL GLAZE 430	5% 1/16W
R10	1-216-819-11	METAL CHIP 680	5% 1/16W
R11	1-216-819-11	METAL CHIP 680	5% 1/16W
R12	1-218-271-11	METAL GLAZE 2K	5% 1/16W
R13	1-216-824-11	METAL CHIP 1.8K	5% 1/16W

SECTION 5
ELECTRICAL PARTS LIST

SEMICONDUCTORS

In each case, u : μ , for example :
uA..... : μ A....., uPA..... : μ PA.....
uPB..... : μ PB....., uPC..... : μ PC.....
uPD..... : μ PD.....

CAPACITORS

uF : μ F

COILS

uH : μ H

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
R14	1-218-271-11	METAL GLAZE 2K	5% 1/16W
R15	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
R16	1-216-833-11	METAL CHIP 10K	5% 1/16W
R17	1-216-817-11	METAL CHIP 470	5% 1/16W
R18	1-216-824-11	METAL CHIP 1.8K	5% 1/16W
		< SWITCH >	
S1	1-762-894-11	SWITCH, SLIDE (POWER)	

		MISCELLANEOUS	

MIC1	8-814-271-00	MICROPHONE, BUILT-IN CU14-01A	
MIC2	8-814-271-10	MICROPHONE, BUILT-IN CU14-02A	
P1	1-696-446-11	CORD, MICROPHONE (2 CORE) (MIC OUT)	

		ACCESSORIES & PACKING MATERIALS	

	2-545-083-01	PORCH, CARRYING	
	3-858-569-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, GERMAN,SPANISH,DUTCH,ITALIAN)	

		HARDWARE LIST	

#1	7-685-203-19	SCREW +RK 2X5 (TYPE 2)	
#2	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
#3	7-685-102-19	SCREW +P 2X4 TYPE2 NON-SLIT	