

ECM-DM5P

SERVICE MANUAL

Ver 1.1 2002.04

*E Model
Tourist Model*



SPECIFICATIONS

General

Type	Electret condenser microphone
Plug	Gold plated miniplug
Power source	Plug in power
Dimensions	Approx. 10 × 45 mm (dia./h) ($1^3/32 \times 1^13/16$ in.) incl. projecting parts and controls
Mass	Approx. 15 g (1 oz)
Supplied accessories	Wind screen (1) Carrying case (1)

Performance

Frequency response	100 – 15,000 Hz
Directivity	Unidirectional (mono)
Sensitivity	Open circuit output voltage *1 : -34.0 ± 3.5 dB
Maximum sound pressure level *2	More than 110 dB SPL
Operating temperature range	0°C – 40°C (32°F – 104°F)
*1	0 dB = 1 V/Pa, 1,000 Hz (1 Pa = 10 μ bar = 94 dB SPL)
*2	1 % wave distortion is present at 1,000 Hz. (0 dB SPL = 2×10^{-5} Pa)

Design and specifications are subject to change without notice.

ELECTRET CONDENSER MICROPHONE

SECTION 1 SERVICING NOTES

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

• UNLEADED SOLDER

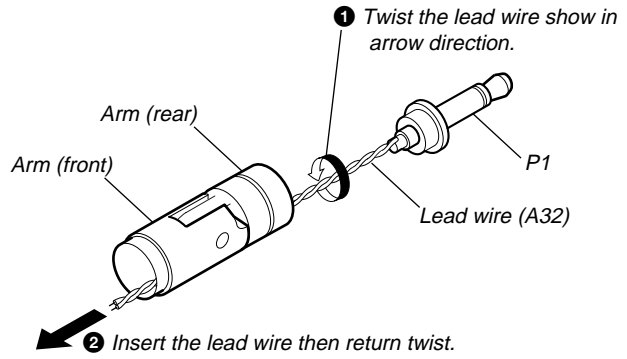
Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

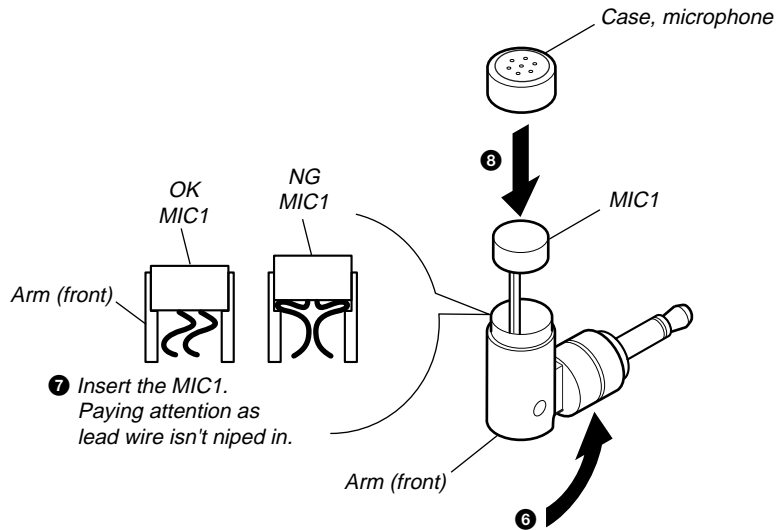
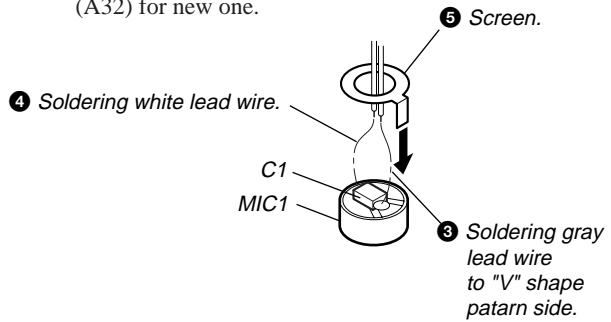
Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time. Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

MIC1 INSTALLATION

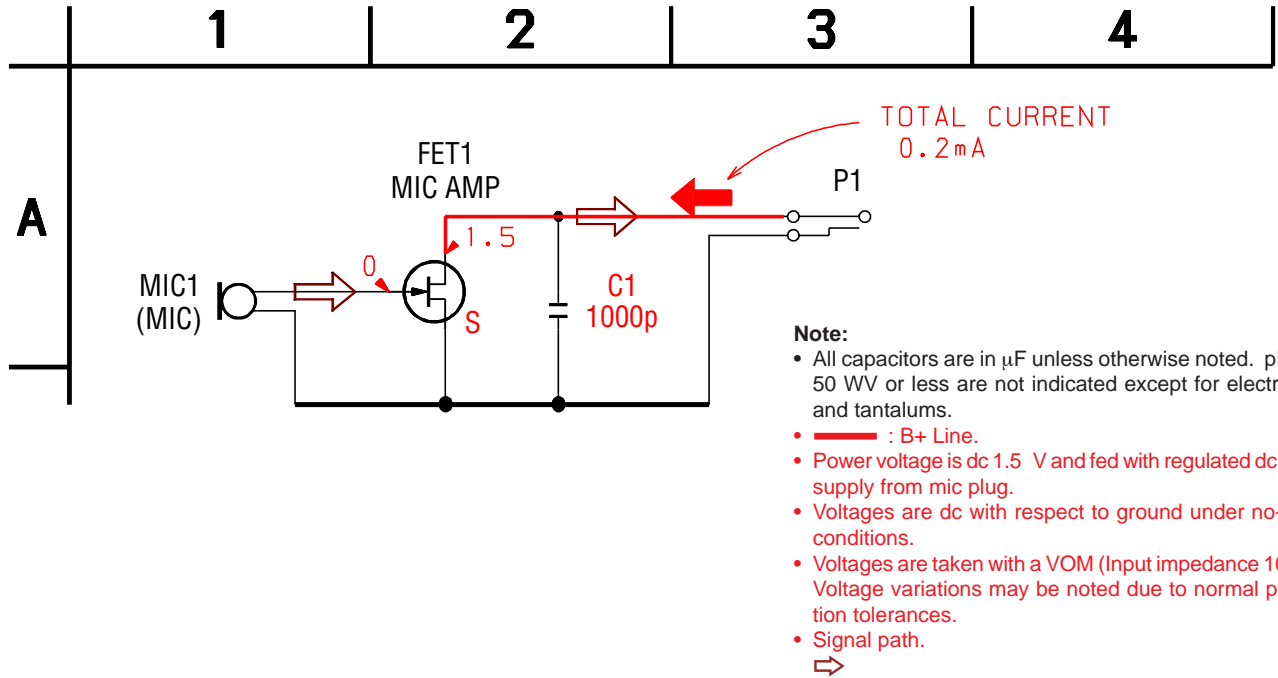


Note:
When remove solder front P1, change the lead wire (A32) for new one.



SECTION 1
DIAGRAM

[SCHEMATIC DIAGRAM]

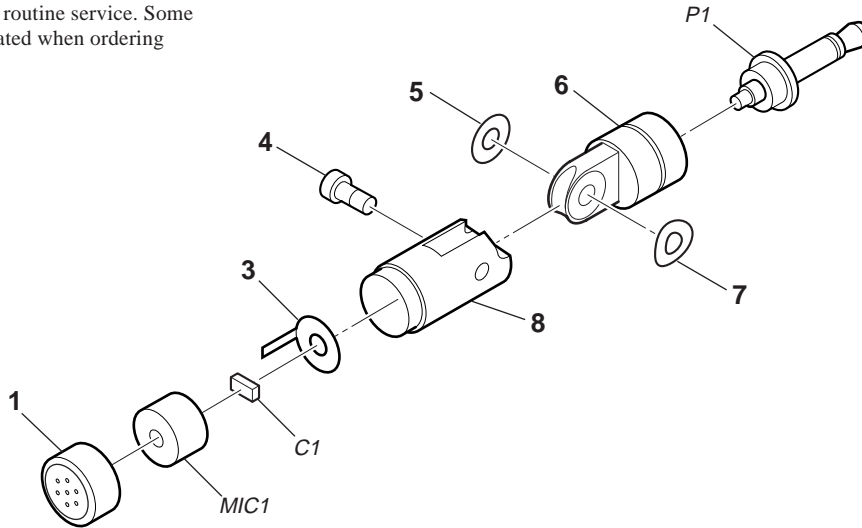


SECTION 2
EXPLODED VIEW

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.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-239-684-01	CASE, MICROPHONE				ACCESSORIES	
3	3-241-825-01	SCREEN				*****	
4	3-239-685-01	SCREW, ARM FASTENING					
5	7-623-923-11	WASHER 2.6, NYLON			2-131-412-03	PORCH, CARRYING	
6	3-239-683-01	ARM (REAR)			3-240-625-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, SPANISH, ITALIAN, PORTUGUESE)	
7	3-240-648-01	WASHER, BENDING			3-241-824-01	SCREEN, WINDOW	
8	3-239-682-01	ARM (FRONT)					
C1	1-163-009-11	CAP,CHIP CERAMIC 1000PF B 2012					
MIC1	1-542-342-11	MICROPHONE, ELECTRET CONDENSER					
P1	1-815-831-11	PLUG, CHARGE (SMALL TYPE)					
