# ECM-221

**SERVICE MANUAL** 



US Model Canadian Model AEP Model E Model

### **SPECIFICATIONS**

Type Electret condenser microphone (with back electret con-

denser capsule) Directivity Uni-directional

Frequency response 50-14,000Hz

Output impedance 200 ohms  $\pm 20\%$ , unbalanced Effective output level 53.8dBm (0dB=1V/Pa, 1.000Hz)

Dimensions Approx. 38mm dia. ×188mm length

 $(1 \frac{1}{2} \text{ in. dia. } \times 7 \frac{1}{2} \text{ in. length})$ 

Weight Approx. 200g (7,1 oz) incl. battery Supplied accessories Microphone holder (1)

Output plug adaptor (1) Sony battery SUM-3 (NS) (1)

Design and specifications subject to change without notice.

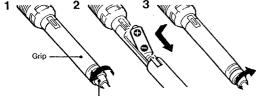
### **Features**

- The back electret condenser capsule assures a wide frequency range and clear sound.
- The talk switch is conveniently placed in order to cut off the unwanted sound intermittently while holding an interview or addressing an audience.
- A high quality microphone cable assures high quality sound.
- · An output plug adaptor for mini jack to phone jack is supplied.

### How to Install a Battery

#### **Battery life**

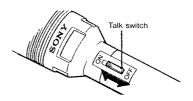
A Sony battery SUM-3 (NS) will last for about 10,000 hours of use. Replace the battery with a new one if any distortion occurs or if noise is increased. The battery is being expended even when the microphone is not in use. As the talk switch is not the power switch, the battery will continue to be expended even when the talk switch is set to OFF.



Turn this portion counterclockwise

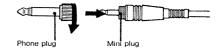
### How to Use the Talk Switch

When the microphone is used: Set the switch to ON. When the microphone is not in use: Set the switch to OFF.



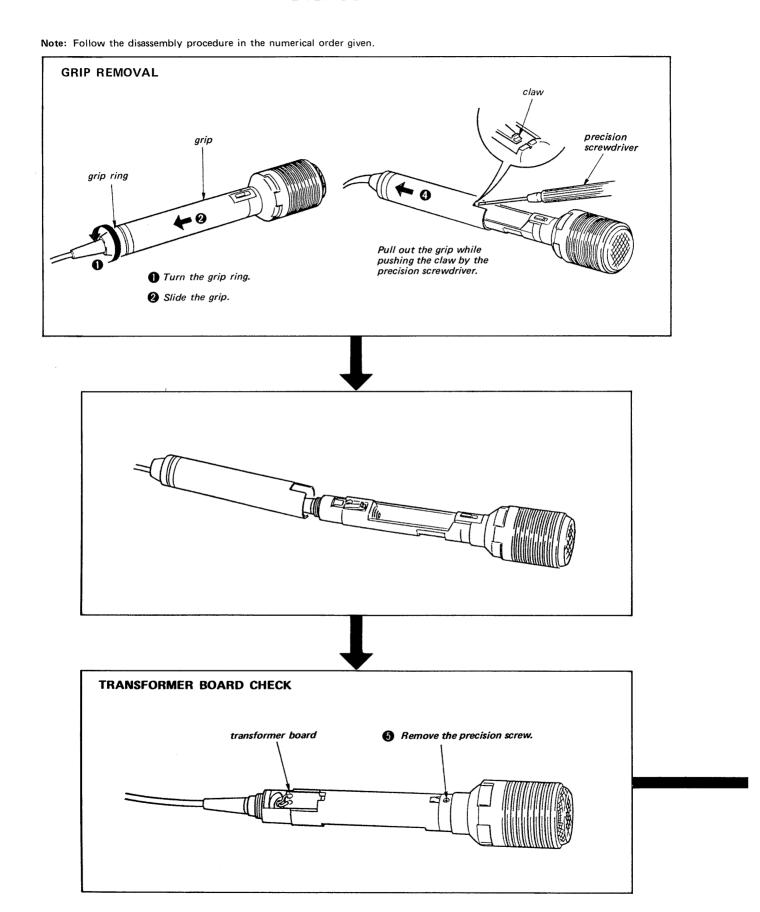
### How to Use the Supplied Output Plug Adaptor

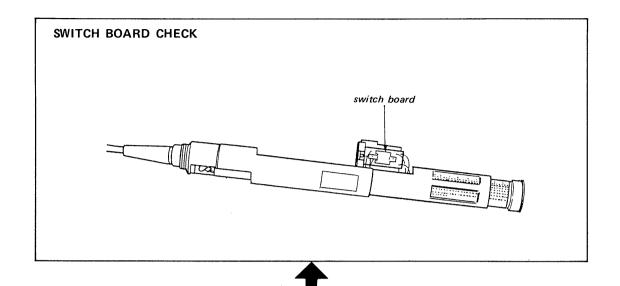
To insert the plug of the microphone cable into the phone jack, use the supplied output plug adaptor.

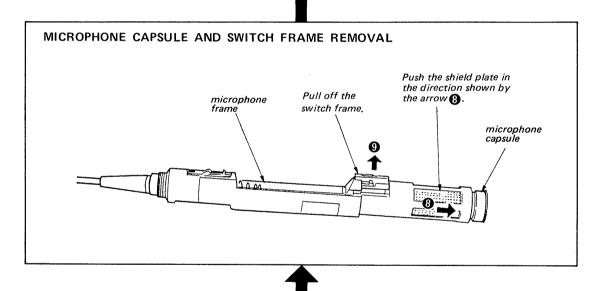


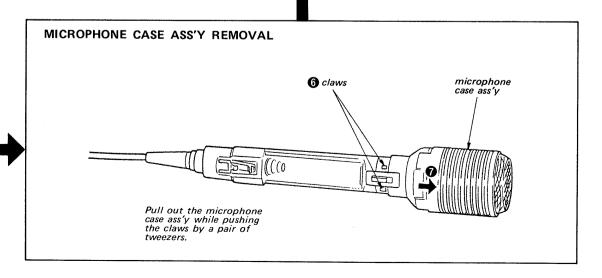
# ELECTRET CONDENSER MICROPHONE SONY.

### SECTION 1 DISASSEMBLY

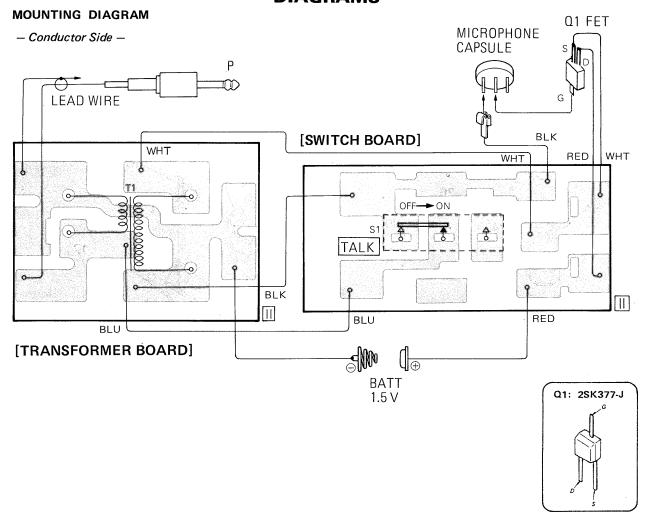




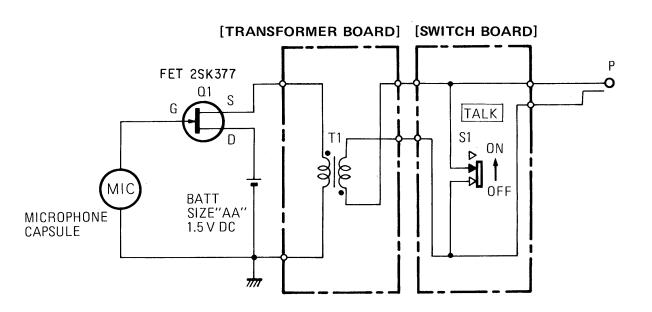




## **SECTION 2 DIAGRAMS**



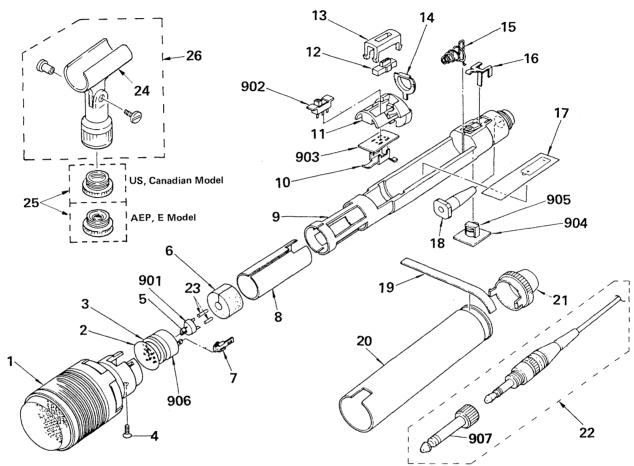
### SCHEMATIC DIAGRAM



# SECTION 3 EXPLODED VIEWS

### NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) . . . KNOB, BALANCE (WHITE)



No.	Part No.	Description	Remarks
1 2	2-524-922-00	CASE ASSY, MICROPHONE SCREEN, CAPSULE	
4	2-512-814-01	RING, MASTER, TAG SCREW,	
5	2-523-713-00	TERMINAL	
6 7 8 9		DAMPER (D), CASE	
/	2-524-102-00 *2-520-433-00	TERMINAL, GROUND	
9		FRAME, MICROPHONE	
10	2-520-436-00		
	2-520-429-00		
	2-520-430-00		
	2-520-432-21	BOARD, TERMINAL, POSITIVE	
	2-524-105-00		
16		SPRING (LOWER)	
		LABEL, BATTERY	
	2-524-115-11 2-542-031-01	LABEL, MODEL NAME	
30	2-520-435-21		

No.	Part No.	Description	Remarks
21 22 23	2-520-434-00 1-590-153-11 2-520-115-00	GRIP (END) CORD, MICROPHONE (1 CORE) TUBE, INSULATING TRANSISTOR 2SK377-J	
901	8-729-802-30	TRANS1510R 25R577-0	
902	1-552-190-00	SWITCH, SLIDE	
903	*1-600-697-00		
904 905	*1-600-698-00 1-427-431-00	PC BOARD, TRANS TRANSFORMER, MICROPHONE OUTPUT	
906	8-814-171-04	CU17-01-05	
907	1-506-410-00	PLUG, STANDARD	

### ACCESSORY & PACKING MATERIAL

	Part No.	Description
24	2-523-809-00	ARM. SUPPORT
25		ADAPTER, SCREW, STAND, SAD-35 (US, Canadian Model)
		ADAPTER, SCREW, STAND, SAD-34 (AEP, E Model)
26	A-4581-009-A	HOLDER ASSY, MIC