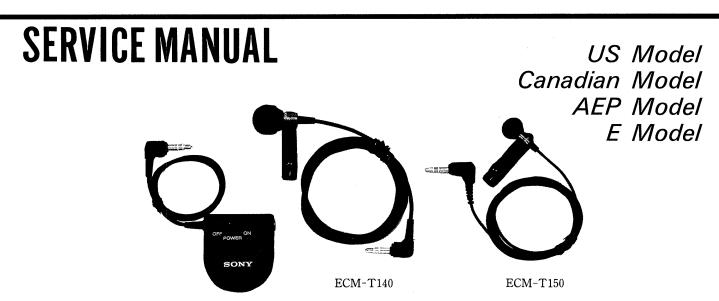
# ECM-T140/T150



#### **SPECIFICATION**

Electret condenser microphone Type Dimensions

Microphone

Mass

ECM-T140 Approx. 8.5 x 18 mm (outside diameter × length) (11/32 × 23/32 inches) ECM-T150 Approx. 5.6 × 17.7 mm (outside diameter × length)

 $(1/4 \times 23/32 \text{ inches})$ Battery box

Approx.  $40 \times 13 \times 46 \text{ mm (w/h/d)}$  (1  $\frac{5}{6} \times \frac{17}{32} \times 1$   $\frac{12}{16}$  inches)

Microphone (including cord) ECM-T140 Approx. 13 g (0.46 oz.) ECM-T150 Approx. 8 g (0.28 oz.) Battery box (including cord and battery)

Approx. 18 g (0.63 oz.)

Microphone: Single core-shielded Length: Approx. 1 m (3.3 feet)

1.5 mm dia. (ECM-T150) 2.2 mm dia. (ECM-T140) Battery box: Single core-shielded

Length: Approx. 0.3 m (1.1 feet) 2.2 mm dia.

Battery box (1) Supplied accessories

Holder clip (1) (ECM-T140/T150) Wind screen (1) (ECM-T140/T150)

50 - 15,000 Hz Frequency response Omni-directional

Output impedance 2.7 kilohms ±20%

Open circuit output voltage level -45±3 dB Sensitivity

(0 dB = 1V/Pa, 1.000 Hz 1 Pa = 10  $\mu$ bar = 94 dBsPL) Effective output level -55.3 ±3 dBm

(0 dBm = 1 mW/Pa, 1,000 Hz) Approx, 330 hours with Sony lithium Battery life

battery CR2025

Maximum sound pressure input level

(at 1,000 Hz, 1% distortion)

More than 110 dBsPL 0 dBsPL= 2 × 10 -5 Pa

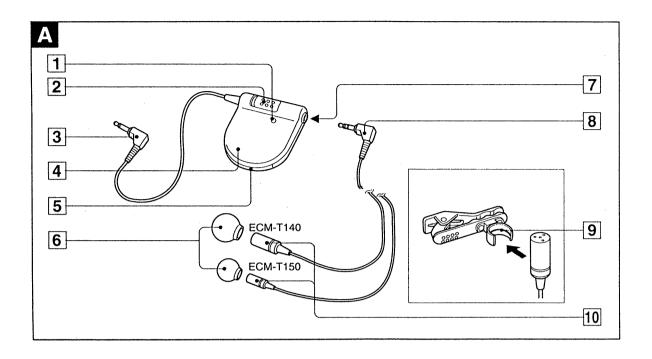
0°C - 40°C (32°F - 104°F) Operating temperature

Design and specifications are subject to change without notice.

## **Features**

- Mini-sized lavalier microphone which can be attached and detached of the holder clip (ECM-T140/T150).
- · Two-way powering system to correspond to the tape recorder you use: supplied battery box or plug-in power system\*.
- \* Power to the microphone is supplied directly from the connected tape recorder.

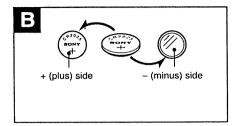


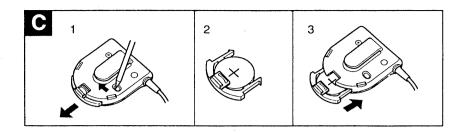


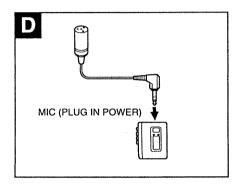
## Parts Identification See fig. A.

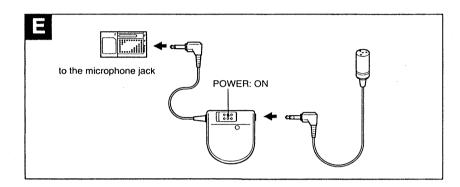
- Battery check lamp
  When the POWER switch is moved from OFF to ON, this lamp will light momentarily if the battery is in good condition.

- 2 POWER switch
  3 Output plug (L-shaped 2-pole miniplug)
  4 Battery box
  Clip portion can be attached to the inside pocket or belt, etc.
- 5 Battery compartment6 Wind screen
- Cover the microphone with the wind screen. It will reduce wind or breath noises.
- Output plug (L-shaped 3-pole miniplug)
- 7 Microphone jack 8 Output plug (L-sh 9 Holder clip Align the projection inside of the holder with the cut-out of the microphone.
- 10 Microphone









## Battery Installation See fig. B and fig. 6.

When you connect the microphone to a tape recorder without plug-in power system, install the Sony lithium battery CR2025 (not supplied) in the battery compartment.

Install the lithium battery with correct polarity. If the battery is installed with incorrect polarity, the microphone does not operate.

- 1 While pushing the tip inside with some pointed object, pull out the battery compartment.
- 2 Install the lithium battery in the battery compartment with the + side up.
- 3 Insert the battery compartment in the battery box.

#### When to replace the battery

You can use the microphone continuously for approx. 330 hours when using the Sony lithium battery CR2025. When the battery becomes weak, the lamp will light dimply or will not light at all. In this case, replace the battery with new one (Sony lithium battery CR2025).

To avoid battery wear or unit damage caused by battery corrosion, set the POWER switch to OFF after using the microphone.

## **Connections**

## To use with a plug-in power system tape recorder See fig. D.

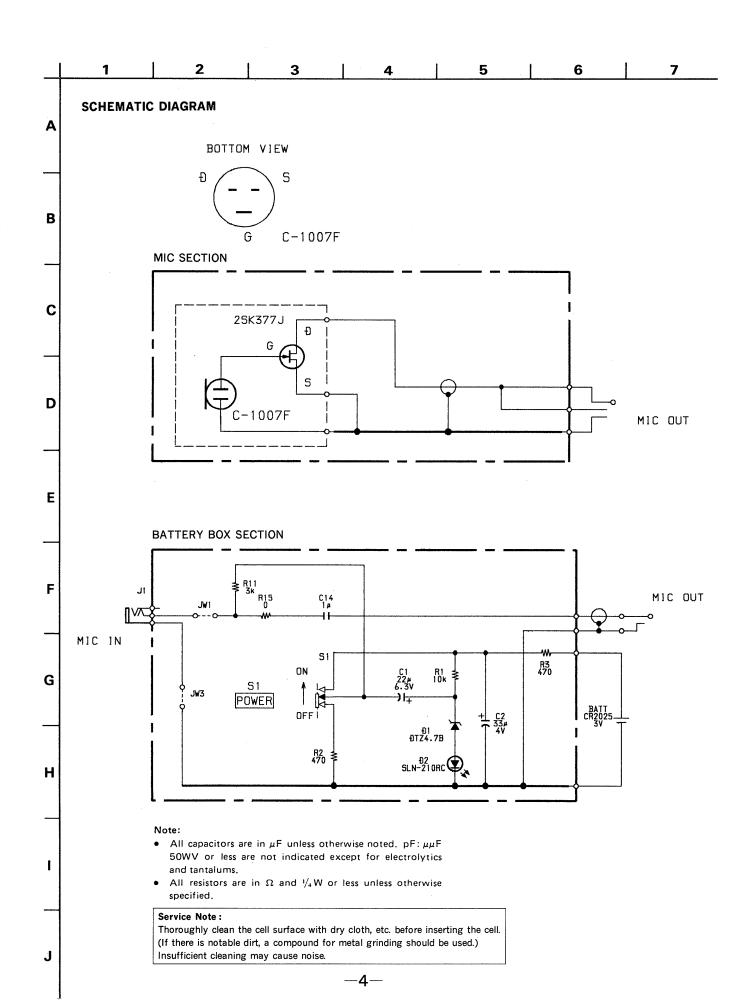
Connect the L-shaped 3-pole miniplug directly to the MIC (PLUG IN POWER) jack of the tape recorder such as Sony M-607V, TCM-77, etc. **Notes** 

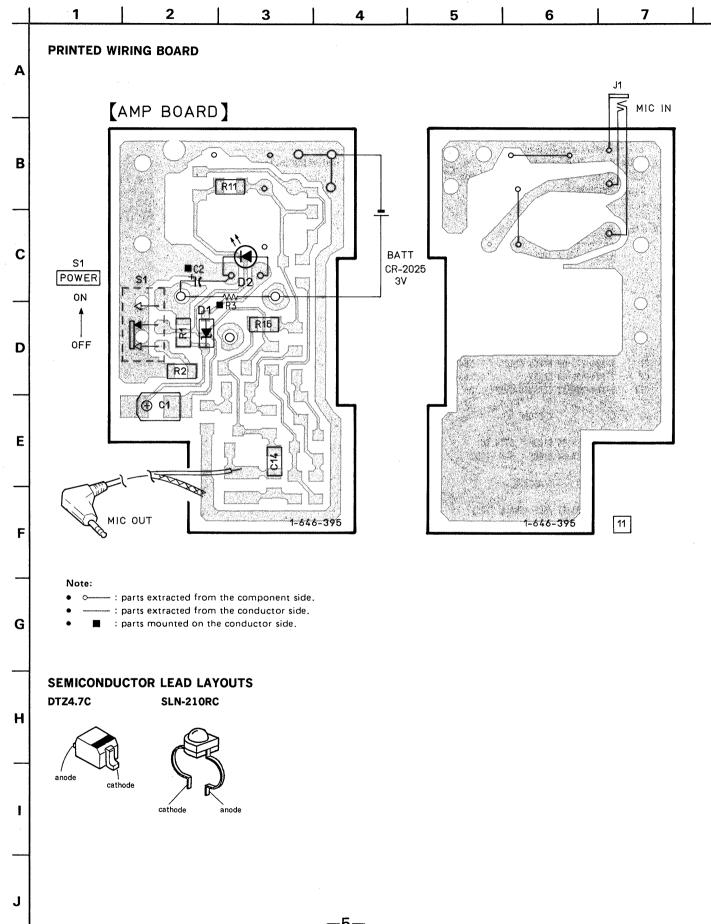
- When connecting a tape recorder whose microphone jack is also used as headphones jack such as Sony M-88V, M-909, etc., use the battery box even though that tape recorder is capable of powering a microphone (plug-in power system). When you connect the L-shaped 3-pole plug directly to the microphone jack, the tape recorder may not operate correctly.
- The signal from the microphone is supplied to both left and right channels when you connect the microphone to a stereo tape recorder with plug-in power system.

## To use with a tape recorder without plug-in power system See fig. E.

Use the battery box.

Connect the L-shaped 2-pole plug to the microphone jack of a tape recorder and connect the L-shaped 3-pole plug to the microphone jack of the battery box. Set the POWER switch on the battery box to ON.



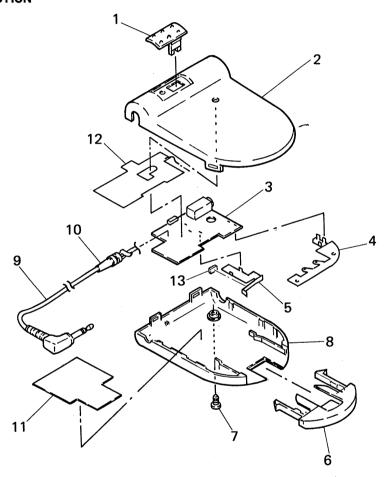


#### **EXPLODED VIEWS**

NOTE:

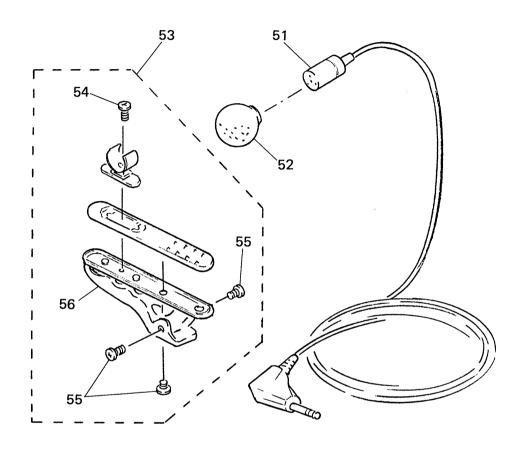
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

### 1. BATTERY BOX SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1		KNOB, SWITCH	www.paranesen.com/stables	8	2-543-378-01	CASE (LOWER)	
1		,		*			
2	2-543-377-01	CASE (UPPER)		9	1-751-202-11	CORD, MICROPHONE (1 CORE)	
3	A-4542-120-A	AMPLIFIER BOARD, COM	PLETE	10	2-284-602-11	BUSHING	
4	2-543-383-01	TERMINAL, MINUS		11	2-543-436-01	SHEET, BLIND	
5	2-543-382-01	TERMINAL, PLUS		12	2-543-441-01	SHEET, SHIELD	
6	2-543-380-01	HOLDER, BATTERY		13	9-911-839-XX	CUSHION	
7	7-685-104-19	SCREW +P 2X6 TYPE	2 NON-SLIT				

## 2. MIC SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	A-4540-202-A	MICROPHONE ASSY, LAVALIER	(T140)	53	A-4540-179-A	CLIP ASSY, HOLDER (T150)	
51	A-4540-203-A	MICROPHONE ASSY, LAVALIER	(T150)	53	A-4540-185-A	CLIP ASSY, HOLDER (T140)	
52	X-2513-756-1	SCREEN ASSY, WINDOW (T150)	)	54	3-309-597-51	SCREW (1.4), TAPPING, PRECISION	
52	X-2523-603-0	WIND SCREEN ASSY (T140)		55	3-704-197-12	SCREW (M1. 4X2. 0), LOCKING	
				56	X-2542-079-1	CLIP ASSY	

#### **ELECTRICAL PARTS LIST**

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 and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

 $\begin{tabular}{ll} \textbf{METAL OXIDE: Metal oxide-film resistor.} \\ \textbf{F:} \textbf{nonflammable} \end{tabular}$ 

• Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

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

CAPACITORS

uF: μF

• COILS uH: μH When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Rem	ark		
	A-404Z-1ZU-A	AMPLIFIER BOARD						
	2-543-382-01	TERMINAL, PLUS						
	2-543-383-01	TERMINAL, MINUS						
		< CAPACITOR >						
C1	1-124-778-00		22uF		20%	6. 3V		
C2 C14	1-124-431-00	ELECT CERAMIC CHIP	33uF 1uF		20%	4V 16V		
014	1 104 040 11	OLIMINIO OIIII	Iui			104		
		< DIODE >						
D1	8-719-976-96	DIODE DTZ4. 7C						
D2	8-719-027-54	DIODE SLN-210	RC					
		< JACK >						
J1	1-507-950-41	JACK (SMALL TYPI	E).					
		< RESISTOR >						
R1	1-216-073-00	METAL CHIP	10K	5%	1/10W			
R2	1-216-041-00		470	5%	1/10W			
R3	1-249-413-11		470	5%	1/4W			
R11	1-216-060-00		3K	5%	1/10W			
R15	1-216-295-00	METAL CHIP	0	5%	1/10W			
		< SWITCH >						
S1		SWITCH, SLIDE (	,					
**************************************								
		MISCELLANEOUS						
		*****						
9 1-751-202-11 CORD, MICROPHONE (1 CORE)								
***********************								
ACCESSORIES & PACKING MATERIALS								
	**********							

3-756-288-11 MANUAL, INSTRUCTION (ENGLISH, FRENCH,

ITALIAN)

DUTCH, SPANISH, GERMAN, SWEDISH, PORTUGUESE,

**Sony Corporation General Audio Group** 

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