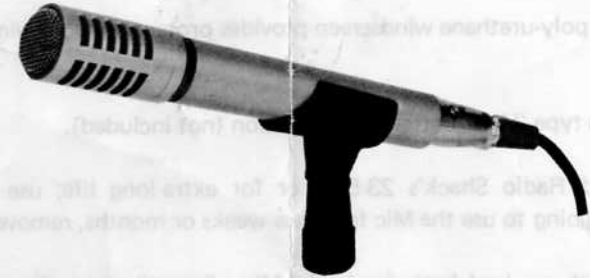


# REALISTIC®

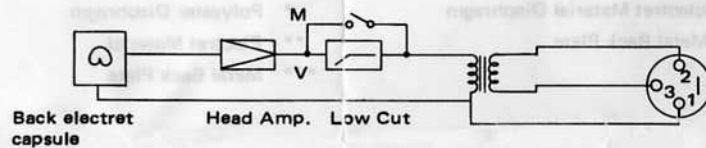
## BACK ELECTRET CARDIOID MICROPHONE Cat. No. 33-1080



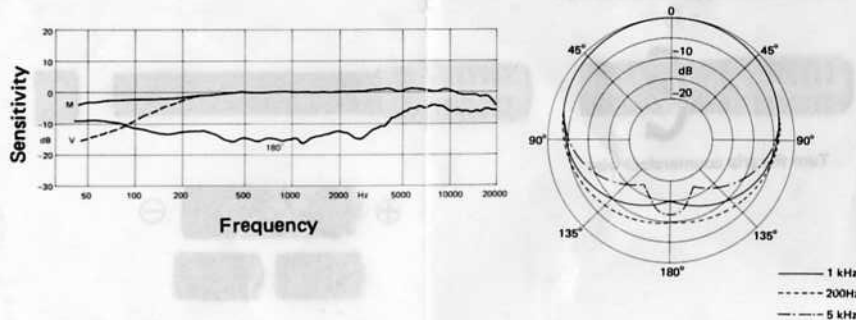
### SPECIFICATIONS


Frequency Response:	20 ~ 20,000Hz (See Frequency Response Curve)	Connector:	Detachable Cannon XLR type connector
Impedance:	600Ω	Cable and Plug:	3/16" (5mm) dia. x 15' (5m) Length --- Cable
Sensitivity:	-72dB (0dB=1V/μbar, 1kHz)	Size:	1/4" (6.35mm) dia. --- Plug
Input Sound Pressure Level:	130dB SPL with "AA" cell (More than 140dB SPL with PX28 cells)	Weight:	1" (26mm) dia. x 7-1/4" (184mm) length
Directivity:	Cardioid	Accessories:	Microphone Holder, Windscreen, Leatherette Case
S/N Ratio:	More than 45dB		
Operating Voltage:	1V ~ 12V		
Battery:	One "AA" penlight cell		
Battery Life:	More than 3000 hours (continuous: "AA" cell)		

### SCHEMATIC DIAGRAM



### TYPICAL FREQUENCY RESPONSE CURVES AND POLAR PICK-UP PATTERNS



RADIO SHACK  A DIVISION OF TANDY CORPORATION

U.S.A.: FORT WORTH, TEXAS 76102  
CANADA: BARRIE, ONTARIO L4M 4W5

TANDY CORPORATION

AUSTRALIA	BELGIUM	U. K.
260-316 VICTORIA ROAD RYDALMERE, N. S. W. 2116	PARC INDUSTRIEL DE NANINNE 5140 NANINNE	BILSTON ROAD WEDNESBURY, WEST MIDLANDS WS10 7JN

8AO

Printed in Japan

Your REALISTIC Back Electret Cardioid Microphone is a high quality condenser microphone. It incorporates an ultra-thin (4 μm) polyester diaphragm. Its frequency response equals more expensive studio microphones. Designed for excellent reproduction of music and voice, it's ideal for use with professional sound systems and tape recorders.


The Music-Vocal switch provides a low-frequency contour compensation. In the V position a special filter circuit is added to reduce proximity effect (excessive bass response when mic is held close to a speaker/vocalist's mouth). In the M position you realize the full frequency response capabilities of this superb microphone.

#### RADIO SHACK LIMITED WARRANTY

This equipment is warranted against defects for 90 days from date of purchase. Within this period, we will repair it without charge for parts and labor. Simply bring your sales slip as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover equipment subjected to misuse or accidental damage.

This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

*We Service What We Sell*

CUSTOM MANUFACTURED FOR RADIO SHACK  A DIVISION OF TANDY CORPORATION

The microphone comes with a standard microphone adapter so you can mount it on a stand and yet easily slip it off the stand for hand-held use.

The cable is specially selected for freedom from hum pick-up and is terminated in a ¼" (6.35mm) plug.

The removable poly-urethane windscreen provides protection from wind and "pop" noises.

You will need a type "AA" battery for operation (not included).

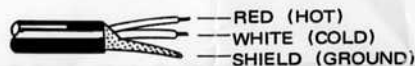
We recommend Radio Shack's 23-582, or for extra-long life, use our 23-552. If you are not going to use the Mic for a few weeks or months, remove the battery.

Never leave weak or dead batteries in the Mic. Even "leakproof" types can leak damaging chemicals.

Avoid continuous operation (or storage) in environments of high temperature and/or humidity.

Plug the Mic into an appropriate jack. If you need an adapter, stop by your Local Radio Shack store.

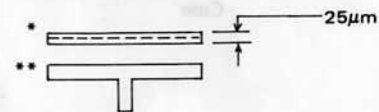
**Note:** The mic cable is 3 conductor (2 inner conductor, plus shield). If you need a balanced type mic line, cut off the ¼" (6.35mm) phone plug and connect the two wires and ground to an XLR-type connector (Cat. No. 274-010 or 274-011).



## BACK ELECTRET PRINCIPLE

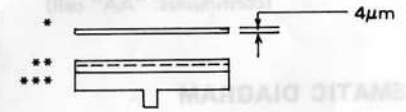
The electret principle has been around for many years; it brought studio-quality mics to the consumer (equivalent of \$300+ professional mics to a \$30 level for home recording enthusiasts). The 80's has produced another radical improvement – the back electret principle. By combining the electrostatic electret material onto the back electrode, the moving diaphragm can be made ultra-thin (4 μm) which means it can vibrate more easily and thus has much greater frequency response and dynamic range.

### ORDINARY ELECTRET



- \* Electret Material Diaphragm
- \*\* Metal Back Plate

### BACK ELECTRET



- \* Polyester Diaphragm
- \*\* Electret Material
- \*\*\* Metal Back Plate

## BATTERY LOADING/REPLACEMENT

Open Mic by turning barrel in direction as illustrated. Install an "AA" penlight cell with polarity as shown. Screw mic body back together securely. For best results, use the alkaline type of battery.



**Note:** For greater dynamic range and higher sound pressure level, you can use two Mallory type PX28 batteries as illustrated (equivalent to National/Panasonic 4G13 or Eveready 544). If you use these higher voltage batteries, **you must remove them when not using the mic.**