

## OUTPUT LEVEL

The output of the microphone when subjected to a 1,000 cycle sound pressure level of 10 dynes/cm<sup>2</sup>, and with the microphone terminated in a non-inductive, resistive load equal to its rated impedance is -50 dbm. The 10 dyne/cm<sup>2</sup> sound pressure level is the standard level used for rating most low impedance microphones and is roughly equivalent to the average sound level of a symphony orchestra as heard from front row center.

## DIRECTIONAL CHARACTERISTICS

The AU-7a has a cardioid pickup pattern. The generating element uses two aluminized Mylar diaphragms. Only one of these is electrically connected. There are acoustical phase shifts between the diaphragms causing the element to be half pressure responsive and half pressure gradient responsive. The sum total of these characteristics results in the familiar cardioid response having a front to back ratio of 20 db. The front of the microphone is indicated by the colored dot at the bottom of the screen.

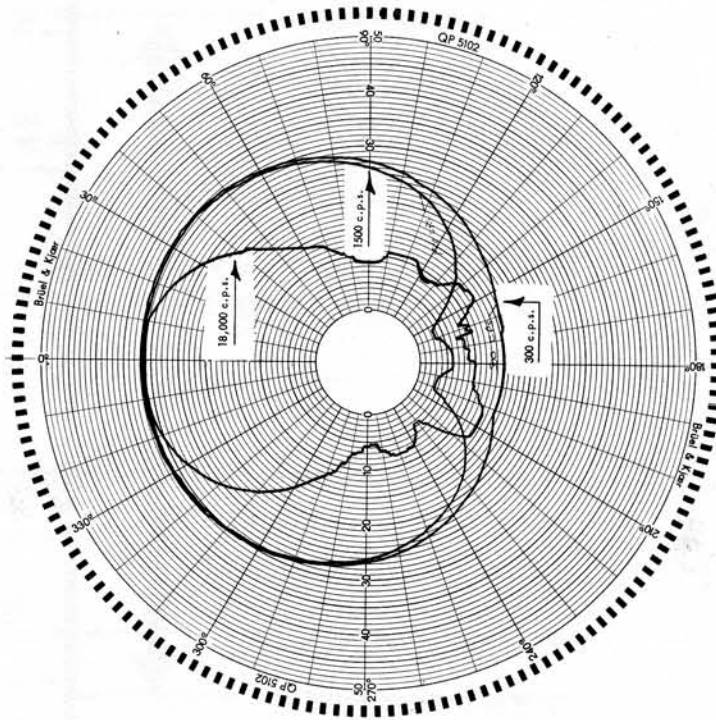


Fig. 2

Ohmmer continuity checks on the cable and connector are as follows:

1. Continuity from pin B to pin C.
2. Continuity from pin A to pin F.
3. Continuity from pin H to the shield at the opposite end of the cable.
4. Continuity from pin D to the black wire at the opposite end of the cable.
5. Continuity from pin E to the white wire at the opposite end of the cable.
6. No continuity from:
  - A to B, C, D, E, H
  - B to D, E, F, H
  - C to D, E, F, H
  - D to E, F, H,
  - E to F, H
  - F to H

If these checks fail to indicate trouble we strongly urge you to return the microphone to Synchron for immediate servicing and prompt return to you. Please do not try to touch the condenser capsule. It is the heart of your microphone and should be handled by specialists.

## WARRANTY

Your microphone is guaranteed by Synchron to be free from defects in workmanship and materials for a period of six months from the date of purchase. Signs of tampering with the condenser capsule void the warranty on the capsule. Validate your warranty by completing and returning the enclosed warranty card.