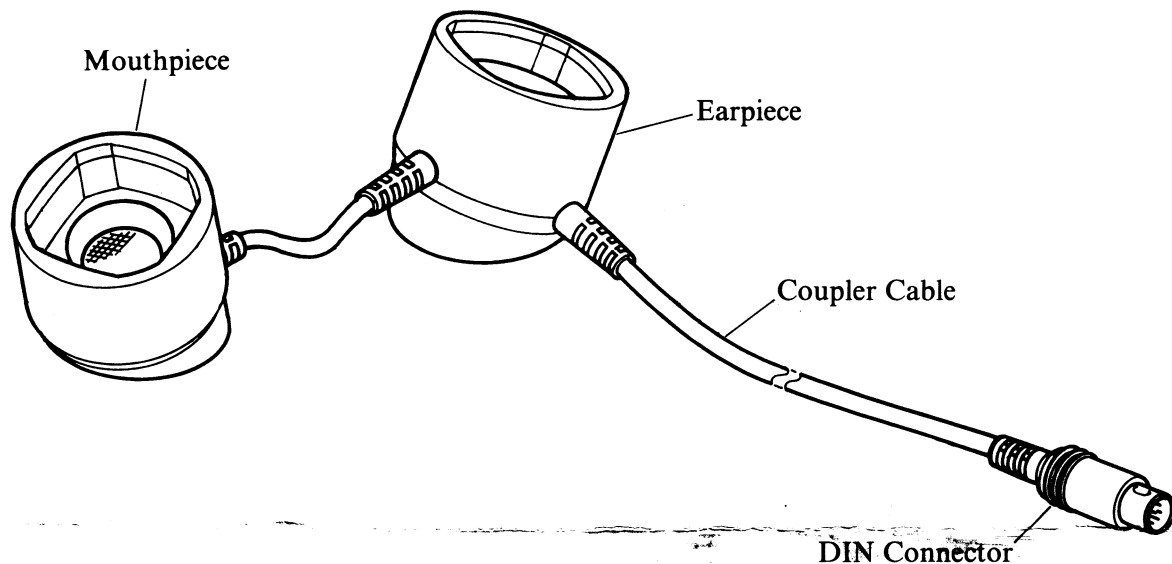


# Tandy Acoustic Coupler 2 for use with Portable Computers

Cat. No. 26-3818

**TANDY**<sup>®</sup>



The Tandy Acoustic Coupler 2 enables your Portable Computer to be connected to a telephone that does not allow direct connection (such as a phone in a telephone booth or hotel room).

When using or handling the Acoustic Coupler 2, keep the following points in mind:

- Avoid excessive strain on the coupler cable. Place the coupler units as close to the telephone as possible. Do not tug on the cable.
- If you are not using the acoustic modem, make sure the DIN connector is disconnected from the computer.
- Do not use the Acoustic Coupler 2 with telephones other than rotary-dial or pushbutton types with standard or European-style handsets.
- While data is being received or transmitted through the coupler units, do not touch the coupler units or subject the cups to significant vibration and noise. This helps prevent data error. The same precautions should be observed with the desk or table upon which the coupler units are placed.
- The condition of the telephone line can disturb the transmission through the Acoustic Coupler 2. If the line disturbance breaks the modem connection, call again.

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## Connecting the Acoustic Coupler 2 to the Computer

1. Connect the DIN connector to the **PHONE** connector on your Computer.
2. Set the **DIR/ACP** switch on your Computer to **ACP**.
3. Dial the phone and wait for the other party to answer. You might need to talk over the phone (to set communication protocol, for example).
4. When you hear a high-pitched tone, place the earpiece unit securely over the earpiece of a standard telephone handset; place the speaker unit over the mouthpiece of the handset, then enter the terminal mode on your computer.

**Note:** Be sure that the acoustic cups are firmly linked with the handset, or poor acoustic characteristics will result.

Position the coupler cable so that it is perpendicular to the coupling units and the handset.

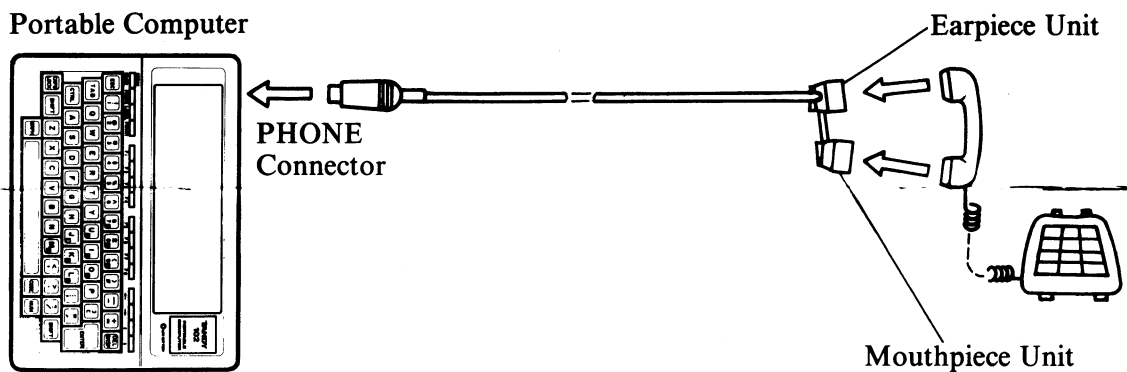


Figure 1

5. When the earpiece and mouthpiece units are coupled to the handset, place them on a flat surface as shown in Figure 2.

**Note:** Avoid laying the handset on its side on any hard surface, such as a desk, because this will allow exterior vibrations to be picked up; thus, data errors could result. When possible, it is recommended that the Acoustic Coupler 2 be placed on a one-inch thick piece of low-density foam.

**Correct** positioning of the handset with the Acoustic Coupler 2 unit in place.

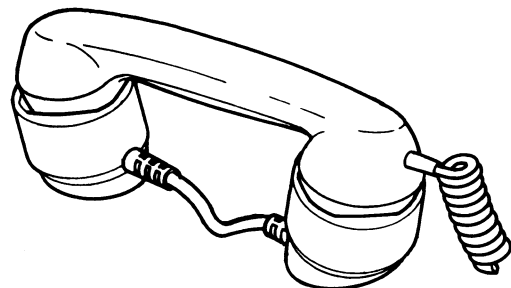
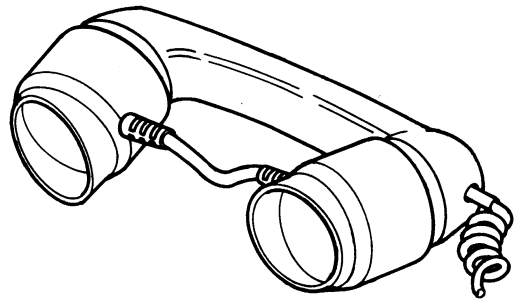


Figure 2

**Incorrect** positioning allows exterior vibrations to enter the handset; this could cause data errors.



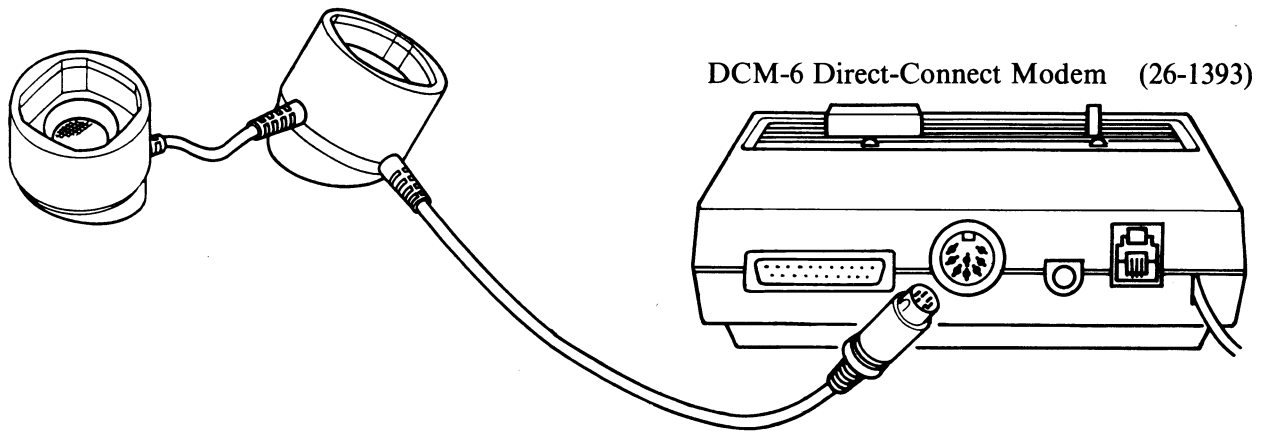
**Figure 3**

6. Connection is now complete.

**Note:** See the owner's manual of your computer for specific instructions regarding use of Acoustic Couplers with your computer.

## Connecting the Acoustic Coupler 2 to the DCM-6

By connecting your Acoustic Coupler 2 to the DCM-6 Direct-Connect Modem (26-1393), you can avoid the more complex types of telephone connections. Just connect the DIN connector of the acoustic cups to the acoustic coupler jack of the DCM-6, as illustrated in Figure 4. For further information, refer to the DCM-6 operation manual.



**Figure 4**

**Note:** Modem operation with acoustic cups is not as reliable as direct-connect operation.

## Specifications

Applicable Telephone Type	Type 500 (Rotary Dial)/Type 2500 (Pushbutton) with standard or European-style handset
Communication Mode	Full/Half-duplex
Modulation Type	F.S.K.
Data Rate	300 baud
Operation Mode	Originate/Answer
Transmitting Frequency	Originate: 1070 to 1270 Hz Answer: 2025 to 2225 Hz
Receiving Frequency	Originate: 2025 to 2225 Hz Answer: 1070 to 1270 Hz
Transmitting Sound Pressure Level	Less than 1 N/m <sup>2</sup> (0.3 to 3.4 kHz)
Carrier Detection Level	Half-Duplex: -40 dBm Full-Duplex: -30 dBm
Environmental Noise Allowance	Less than 80 dB
Operating Voltage	+5V
Power Consumption	Less than 30 mW
Operating Temperature Range	40°F to 104°F (5°C to 40°C)
Operating Humidity Range	20% to 80% RH (non-condensing)
Dimensions	3" (diameter) × 3-1.8" (height) 78 mm (diameter) × 79.5 mm (height)
Weight	13 oz (380 g) including cable

To avoid data errors and obtain the longest-service life, do not use the Acoustic Coupler 2 where it will be:

- Subjected to extremely high or low temperatures or high humidity.
- Exposed to excessive vibration.
- Surrounded by excessive exterior noises.
- Close to very high voltage or appliances using a high voltage.

## **SERVICE POLICY**

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