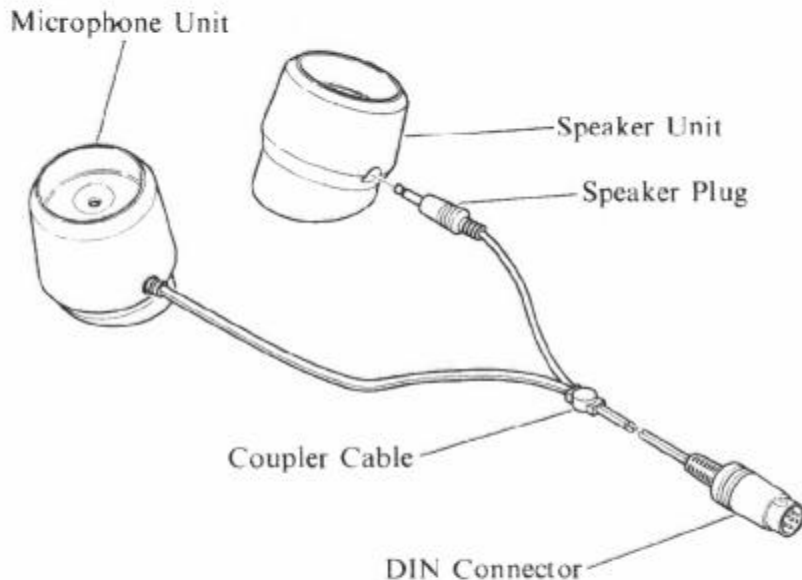


TRS-80 Acoustic Coupler for use with the Model 100



26-3805A



The Model 100 Acoustic Coupler enables your Model 100 to be connected to a telephone that does not allow direct connect (such as a phone in a telephone booth).

When using or handling the Acoustic Coupler, 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.
- Before you plug the DIN connector into the Model 100, make sure the Acoustic Cups are attached to the coupler cable first. If you're not using the acoustic modem, make sure the DIN connector is disconnected from the Model 100.
- Do not use the Acoustic Coupler with any telephones, other than rotary-dial or pushbutton types with standard 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 errors. The same precautions should be observed with the desk upon which the coupler units are placed.
- The condition of the telephone line might sometimes disturb the transmission through the Acoustic Coupler. If the line fails, call again.

Connecting the Acoustic Coupler to the Model 100

1. Connect the speaker plug, located at one end of the coupler cable set, to the speaker unit. (Refer to the illustration on page 1.)
2. Connect the DIN connector to the **PHONE** connector on the rear side of your Model 100.
3. Place the microphone unit securely over the earpiece of a standard telephone handset; then place the speaker unit over the mouthpiece of the handset.

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

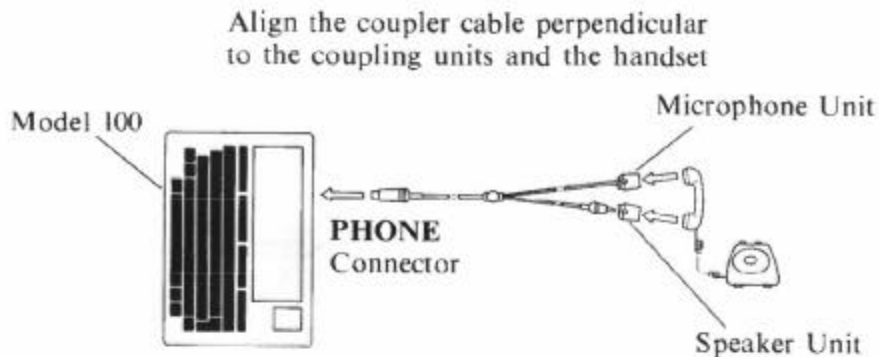


Figure 1

4. When the microphone and speaker units are coupled to the handset, place them on a flat surface, shown in Figure 2.

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

Correct positioning of the handset with the Acoustic Coupler units in place.



Figure 2

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



Figure 3

5. Set the **DIR/ACP** switch on your Model 100 to **ACP**. Connection is now complete and the Model 100 is ready for use.

Note: See the owner's manual of your Model 100 for specific instructions regarding the Acoustic Coupler.

Specifications

Applicable Telephone Type	Type 500 (Rotary Dial)/ Type 2500 (Pushbutton) with standard 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 ² (0.3 to 3.4 kHz)
Carrier Detection Level Half Duplex:	-40 dBm
Full Duplex:	-30 dBm
Environmental Noise Allowance	Operative stably with less than 85 phons
Operating Voltage	+5 V
Power Consumption	Less than 30mW
Operating Temperature range	41°F to 104°F or 5°C to 40°C
Operating Humidity Range	20% to 80% RH (non-condensation)
Dimensions	φ76 mm (diameter) × 76 mm (height) 3" (diameter) × 3" (height)
Weight	330g (11.6 oz) Including cableset

To avoid data errors and obtain the longest service life, do not use the Acoustic Coupler 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.

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