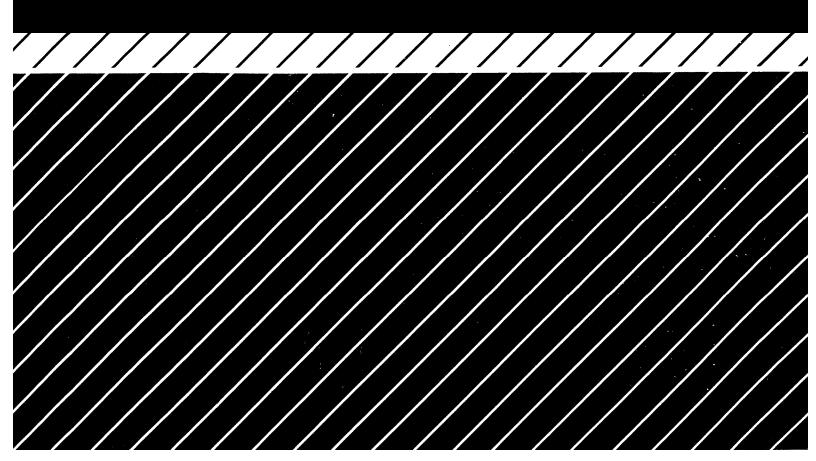


PagePac<sup>®</sup> 20 Voice Paging System **TalkMate**<sup>TM</sup>

Service Manual-Installation



# PagePac<sup>®</sup> 20 Voice Paging System TalkMate<sup>™</sup> Service Manual—Installation

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#### 1. Introduction

#### Overview

TalkMate<sup>™</sup> is an optional module of the PagePac<sup>®</sup> 20 voice paging system and is designed to fit under the PowerMate<sup>™</sup> module. The physical characteristics of PowerMate and TalkMate are listed in Table 1-A

PagePac 20 is a 20-watt telephone-integrated voice paging system designed for use with most PBX and key telephone systems. PagePac 20 provides voice paging from host system telephones over speakers connected to the PagePac 20.

The basic PagePac 20 paging system consists of a PowerMate module and speakers (Figure 1-1). This system provides one-way paging into a single paging zone. PowerMate provides both voice coil and 70-volt outputs to the system speakers. Both outputs may be used at the same time when connected to the appropriate type of speakers.

TalkMate provides talk-back when added to the system. Talk-back allows individuals in the paging area to respond by using the speakers as microphones. TalkMate contains a voice activated switch that is controlled by the voice of the person making the page. When he/she is silent for approximately one-third of a second, the switch goes into the talk-back mode and the speakers become microphones. The voice of the person making the page will switch the system back to the page mode.

**Table 1-A. Physical Characteristics** 

Module	Specification
PowerMate Width Length Height Weight	8.5 inches (21.59 cm) 9.5 inches (24.13 cm) 3.0 inches (7.62 cm) 6.5 pounds (2.95 kg)
TalkMate Width Length Height Weight	8.875 inches (22.54 cm) 10.25 inches (26.03 cm) 1.5 inches (3.81 cm) 4.0 pounds (1.81 kg)

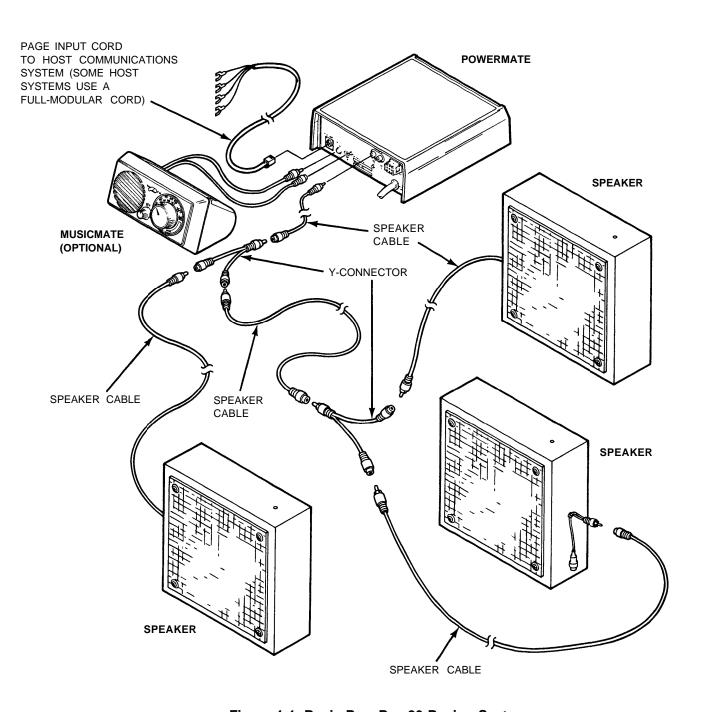


Figure 1-1. Basic PagePac 20 Paging System

# PagePac 20 TalkMate

Adding the optional TalkMate module to PowerMate in a single-zone paging system (Figure 1-2), or to ZoneMate 3 in a 3-zone paging system provides talk-back to all voice coil speakers connected to TalkMate or ZoneMate 3 (talk-back cannot be used with 70-volt speakers). Adding TalkMate to ZoneMate 3 is covered in the ZoneMate 3 Service Manual.

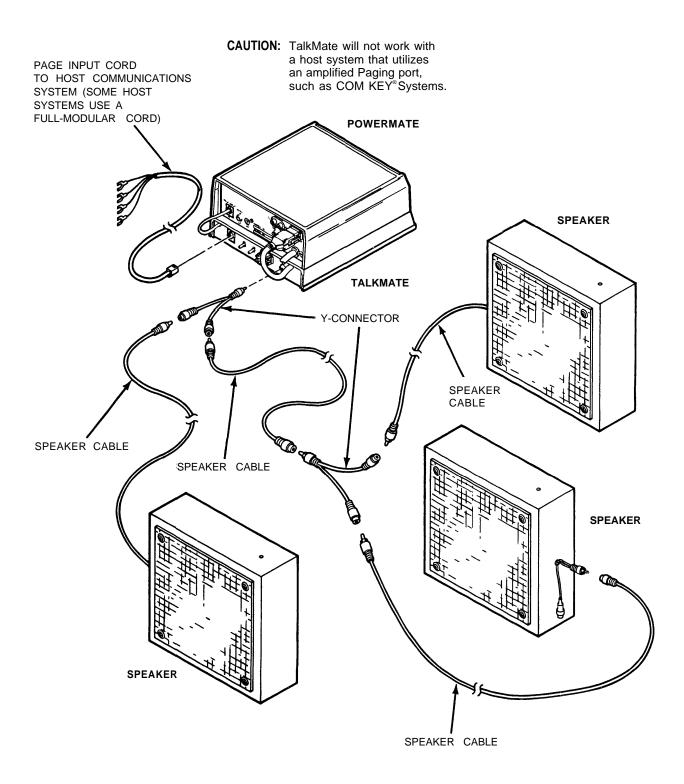


Figure 1-2. PowerMate/TalkMate Paging System

## TalkMate Cords, Cable, and Jacks

The cords, cable, and jacks used to make connections from TalkMate to the PowerMate, host system, and speakers (Figure 1-3) are described in the paragraphs that follow.

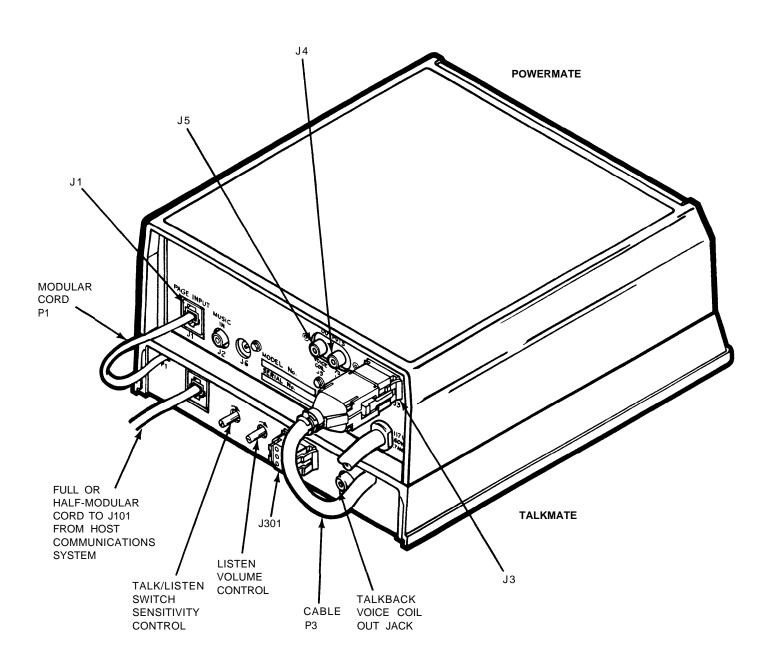
- Modular Cord P1 Plugs into PAGE INPUT jack J1 on rear of PowerMate.
- PAGE INPUT Jack J101 One end of the 6-foot modular cord supplied with the PowerMate plugs into jack J101. The other end of the cord connects to the host communications system using either a modular plug or four spade-tip lugs. When the cord is equipped with spade-tip lugs, connection to the host system may also be through a connecting block. For your host communications system, refer to the PowerMate manual and the specific connection document that is supplied with the PowerMate.
- Cable P3 Plugs into connector J3 on rear of PowerMate. Carries power and audio circuits.
- TALKBACK VOICE COIL OUT Jack Provides voice coil audio output for use with speakers that feature talk-back.
   Connectorized speaker cable or a Y-connector (supplied with speakers) may be plugged directly into this jack.

Note: The OUTPUTS jacks J4 and J5 on PowerMate may be used in combination with the TALKBACK VOICE COIL OUT jack on TalkMate (all three jacks may be used at the same time). But only the speakers powered from TalkMate will have talk-back.

#### **TalkMate Controls**

The TalkMate controls (Figure 1-3) are described in the paragraphs that follow.

- TALK/LISTEN SWITCH SENSITIVITY Control Adjusts sensitivity of Page/Talk-Back switch. The Page/Talk-Back switch controls the page and talk-back modes and is controlled by the voice of the person making the page. Turn control clockwise to increase sound level required to switch back to page mode, or counterclockwise to decrease sound level required to switch back to page mode.
- LISTEN VOLUME Control Adjusts talk-back volume received at telephone. For example, this control will either increase or decrease the sound volume when someone is responding to a page by using the speakers as a microphone. Turn control clockwise to increase talk-back volume and counterclockwise to decrease volume.



**Note:** TalkMate connector J301 provided for connection to ZoneMate 3.

Figure 1-3. PowerMate/TalkMate Connections

#### 2. Installation

#### Overview

This section provides installation and connection instructions for the TalkMate.

#### TalkMate Installation and Connections

If you are connecting TalkMate to an operating PowerMate, it will be necessary to turn off PowerMate and disconnect power, speaker cables, and the page input cord that connects to host communications system. Start at step 1 below.

If you are installing PowerMate and TalkMate at the same time, refer to the PowerMate Service Manual for information on selecting equipment locations and speaker installation procedures. Complete steps 1 thru 9 in the Installation section of the PowerMate service manual, then go to step 5 below.

- Turn PowerMate MUSIC VOLUME control counterclockwise to OFF. The POWER indicator will go off.
- 2. Unplug PowerMate power cord from its AC outlet.
- 3. Disconnect page input modular cord (Figure 1-1) from PAGE INPUT jack J1 on PowerMate, but do not disconnect far end of the cord from host communications system or connecting block.
- 4. Disconnect speaker cable(s) or Y-connector(s) from PowerMate OUTPUTS 70.7V LINE jack J4 and/or VOICE COIL jack J5.

Note: If you have completed steps 1 thru 9 in the PowerMate manual, turn PowerMate MUSIC VOLUME control to OFF and unplug module before starting step 5.

- 5. Set PowerMate within recessed area on top of TalkMate (Figure 1-3).
- 6. Plug TalkMate modular cord P1 (6-inch modular cord with telephone plug) into PowerMate PAGE INPUT jack J1 (Figure 1-3).
- 7. Plug TalkMate cable P3 (6-inch cable with box-like modular connector) into PowerMate connector J3 (Figure 1-3).
- 8. Plug page input cord (6-foot modular cord supplied with PowerMate that connects to host communications system) into TalkMate PAGE INPUT jack J101.

 Plug talk-back speaker cables into TALKBACK VOICE COIL OUT jack on TalkMate. Plug remaining speaker cables into PowerMate jack J4 and/or J5 as appropriate.

Note: The Y-connectors provided with the system may be used as necessary to provide additional speaker outputs. Refer to the PowerMate manual for more information on speaker installation and hookup.

- 10. Plug PowerMate power cord into a 120V AC, 60 Hz outlet.
- 11. Turn PowerMate MUSIC VOLUME control clockwise to 1. The POWER indicator will light.
- 12. Set music volume to the desired level with the PowerMate MUSIC VOLUME control. If music is not provided, set control to 1.

# 3. Operation

#### Overview

This section contains instructions for operating and adjusting the paging system after installation. If the system fails to operate properly, refer to Section 4, Maintenance and Troubleshooting.

### **General Operation**

Operating procedures for your host communications system are shipped in the same package as the page input cord for your particular system (these items are supplied with PowerMate).

When a page is in progress, individuals should be able to communicate with the person making the page via the loudspeakers connected to TalkMate.

The voice of the person making the page controls the talk-back switch. The paging party may cut someone off in mid-sentence if he or she speaks while the other person is responding to the page.

# Adjusting Talk/Listen Sensitivity and Talk-Back Volume

If required, adjust the sensitivity of the Page/Talk-Back switch with the TalkMate TALK/LISTEN SWITCH SENSITIVITY control (Figure 1-3). (Page/Talk-Back switch is factory set for normal usage.)

Example: If a telephone used for paging is located in a noisy area (noise caused by machinery, office equipment, etc.), the background noise may keep the Page/Talk-Back switch from switching to talk-back. In this situation, the TALK/LISTEN SWITCH SENSITIVITY control can be used to decrease the sensitivity of the switch and therefore overcome the background noise problem.

On the other hand, if you have to speak very loudly to get the switch to go back into the page mode, its sensitivity can be increased.

Should the talk-back volume be unsatisfactory, either too high or too low, adjust the volume with the TalkMate LISTEN VOLUME control (Figure 1-3).

# 4. Maintenance and Troubleshooting

#### Overview

This section contains instructions on how to isolate a problem in the PagePac 20 PowerMate/TalkMate paging system to an individual module or the host communications system.

# **Troubleshooting**

Should trouble develop in the PagePac 20 system, verify that:

- System power cord is plugged in and power is available at outlet being used.
- All cables and speaker wires are properly connected.

**Note:** If the PowerMate internal fuse has blown, the module must be returned to an authorized service center for repair (POWER indicator fails to light).

Trouble conditions originating outside of the PagePac 20 system should be located and cleared using normal telephone repair procedures and maintenance procedures listed in the Maintenance and Troubleshooting Section of the PowerMate Service Manual. The following equipment is required:

- Standard 2500-type telephone (touch tone) with full modular cord.
- Dracon Six-Wire In-Line Modular Adapter (Part Number 10220-000).
- Two 6-inch long jumper wires with clips.

#### WARRANTY

All terms and conditions of your agreement with AT&T Information Systems apply.

For service information call the AT&T Information Systems service number that is provided for your communications system.

For warranty and nonwarranty service of this product, Harris Corporation Dracon Division acts solely as a service agent for AT&T Information Systems and any claims are to be made solely with AT&T.

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