



12/88

PagePac® 6 Plus Voice Paging System
User and Installation Manual

PagePac 6 Plus is recommended for the following telephone systems.

PagePac® 6 Plus COMPATIBILITY CHART

AT&T TELEPHONE SYSTEM	TELEPHONE SYSTEM CONNECTION POINT	
	TELEPHONE (STATION) SIDE ACCESS	CENTRAL OFFICE (LINE) SIDE ACCESS
SPIRIT® 308/616	NO	YES
SPIRIT® 2448	NO	YES
MERLIN® PLUS	NO	YES
MERLIN II	NO	YES
SYSTEM® 25	NO	YES

ORDERING INFORMATION

PagePac 6 Plus—PEC 5323-008 COMCODE 405701608

PagePac 6 Plus Installation Instructions—Document No. 999-500-212

To order copies of this manual, call the AT&T Customer Information Center, 1-800-432-6600.

Or write to:

AT&T Customer Information Center
P.O. Box 19901
Indianapolis, IN 46219

Order: Document Number 999-500-212

CONTENTS

	PAGE
INTRODUCTION	1
Features	1
INSTALLATION	2
How to Install PagePac 6 Plus With One or Two Telephone Lines	2
Connecting Speakers To PagePac 6 Plus	5
OPERATION	7
Options—And How to Select Them	7
Tones You Hear—And What They Mean	9
How To Page	9
How To Use Your Telephone	9
How To Adjust Page, Talk-Back And Music Volume	11
FCC REGULATIONS PERTAINING TO THIS EQUIPMENT	12

PagePac® and MusicMate™ are protected trademarks of Harris Corporation Dracon Division.
SPIRIT, MERLIN, DIMENSION, HORIZON, AND COMKEY are registered trademarks
of AT&T.

INTRODUCTION TO THE AT&T PagePac® 6 Plus VOICE PAGING SYSTEM

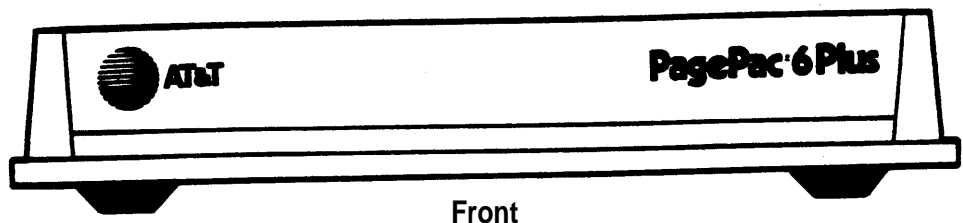
AT&T PagePac® 6 Plus is a compact, powerful, voice-paging system that integrates three paging zones, each with talk-back capability, into your telephone system. PagePac 6 Plus can be used with most AT&T telephone systems, from single-line residential systems to modern electronic key and PBX systems.

FEATURES

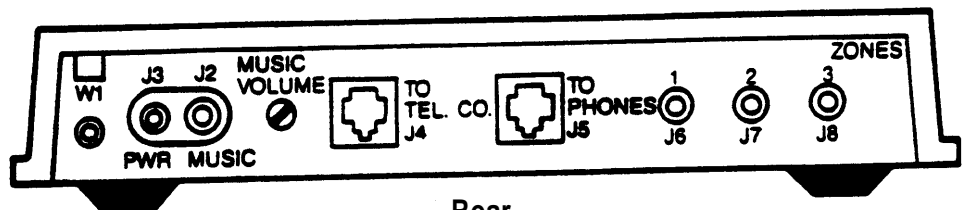
- Connects to your telephone system through standard modular telephone cords and type 42A connecting blocks.
- Works with either one or two lines, and provides two separate paging paths when used with two lines.
- Provides three separate paging zones, each with 2-watt voice-coil output, as well as “all call” paging.
- Uses standard touch-tone or rotary telephones to select zones.
- Talk-back is available in all three zones.
- Supports both standard (indoor) and horn speakers.
- Controls background music in all three zones (music must be provided from a separate source, such as the PagePac MusicMate™, an FM tuner, a tape deck, or leased source).

NOTE: Those who use paging systems to rebroadcast copyrighted music are required to obtain licenses from and pay fees to copyright owners. This usually involves obtaining licenses and paying fees to either ASCAP and/or BMI (American Society of Composers, Artists and Producers, Broadcast Music Inc.). It is the user's obligation to obtain any license required and pay any fees.

- Comes with its own 12-VAC power supply that plugs into any standard 120-VAC, 60 Hz outlet.
- User options are dial selected.



Front



Rear

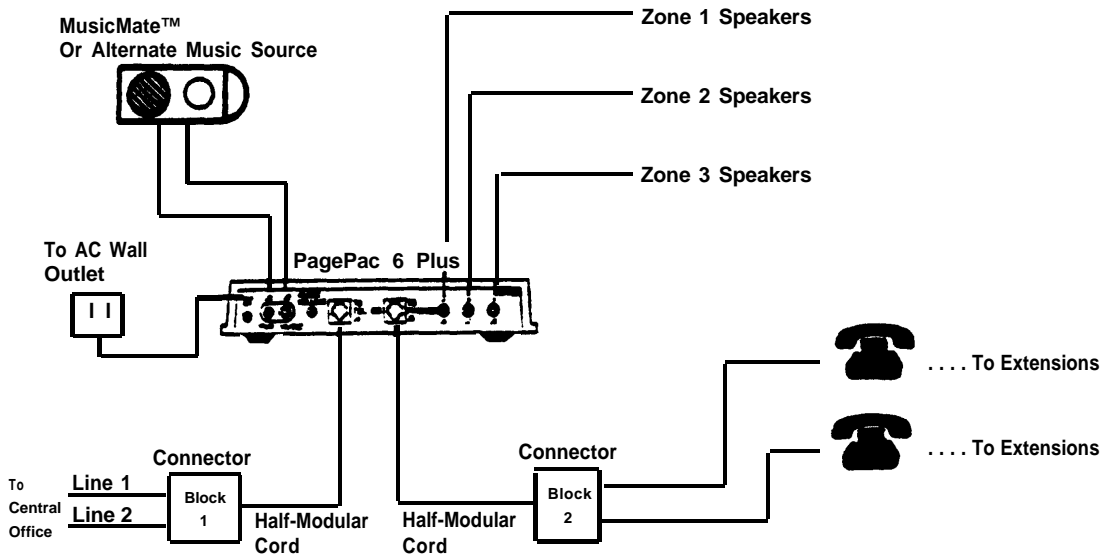
PagePac® 6 Plus

INSTALLATION

HOW TO INSTALL PagePac 6 Plus WITH ONE OR TWO TELEPHONE LINES

Installation Materials Required That Are Not Provided

- Two half-modular, four-conductor telephone cords, length as required.
- Two connecting blocks (type 42A).
- Harris Dracon voice-coil speakers, or equivalent
NOTE: Use *no more* than eight voice-coil speakers per zone.
- Standard speaker cable and three RCA-type male phono plugs.
- Standard installation tools (screwdriver, wire cutters, pliers).
- (Optional) MusicMate, or other standard music source such as tape deck, FM tuner, leased source, etc.

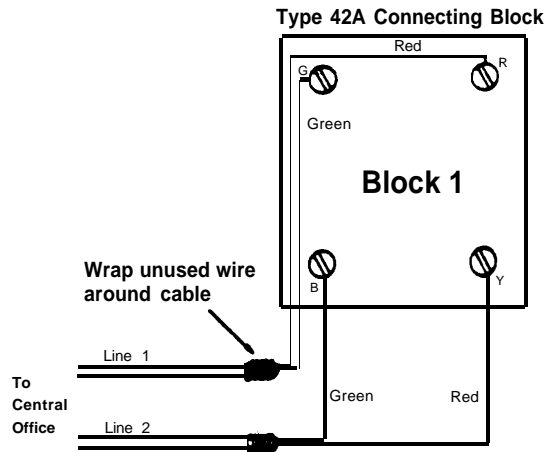


NOTE: Use connection to J3 only with MusicMate.

Installation Procedure

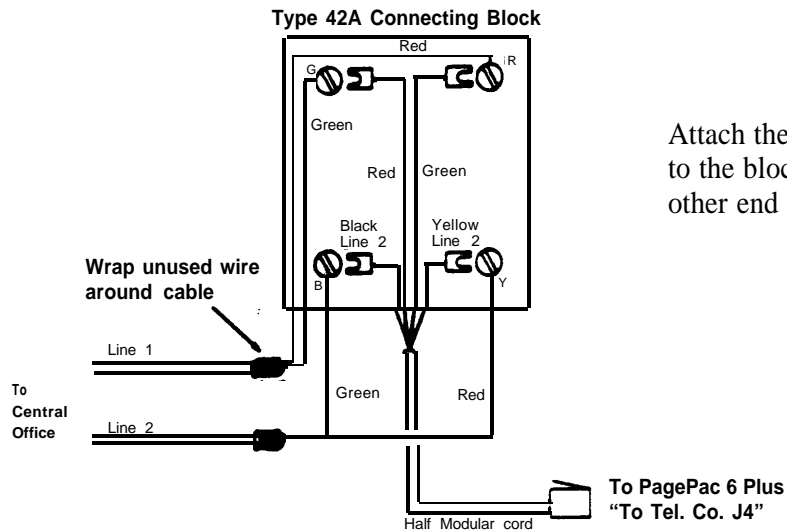
1. Connect PagePac 6 Plus to the incoming telephone line(s). Connections are shown on the next page.
2. Connect the speakers to PagePac 6 Plus with RCA-type phono plugs.
3. (Optional) You may connect a MusicMate or other music source (FM tuner, tape deck, leased source, etc.). If you use a source other than MusicMate, you will not use jack J3.
4. Connect the power supply to an AC outlet (120 VAC, 60 Hz). The LED on the PagePac 6 Plus back panel (below the power cord) will illuminate. *Do not use an outlet that may accidentally be turned off by a wall switch.*

FOR A SINGLE LINE—USE LINE 1 CONNECTIONS ONLY

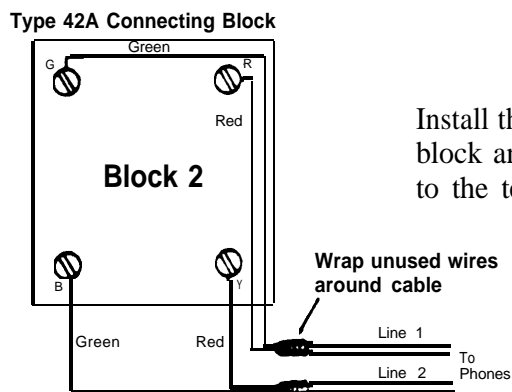


Install the first connecting block and attach the incoming line(s) to the block.

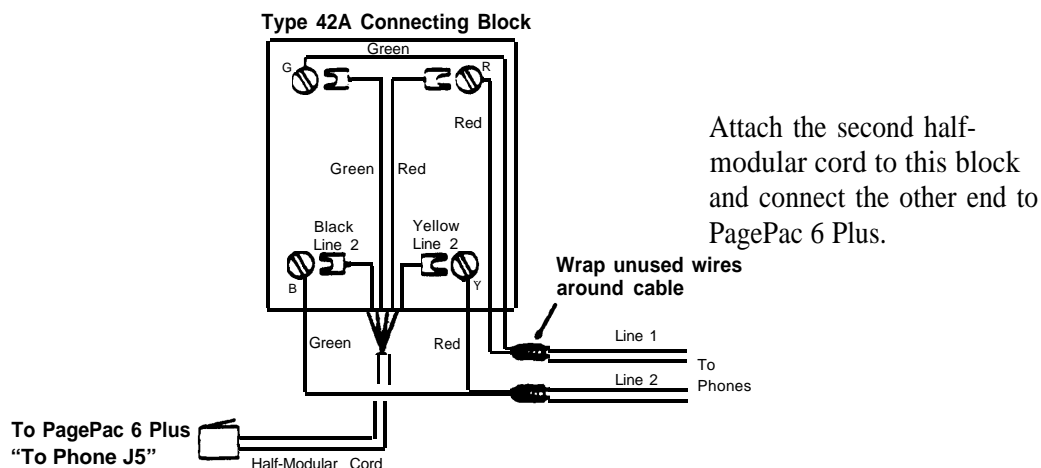
NOTE: See conversion chart on next page, if you have 6-conductor wire.



Attach the half-modular cord to the block, and connect the other end to PagePac 6 Plus.



Install the second connecting block and attach the line(s) to the telephone(s).



What If You Have 6-Conductor Wire?

If you have 6-conductor wire rather than the 4-conductor shown in the illustrations, use the table below. It shows which conductors in the larger wire correspond to the red, green, yellow and black conductors in the smaller wire.

4-Conductor Wire

Green
Red
Yellow
Black
—
—

6-Conductor Wire

White/Blue*
Blue/White
White/Orange
Orange/White
White/Green
Green/White

*The main color is listed first.

CONNECTING SPEAKERS TO PAGEPAC 6 PLUS

Both standard speakers (indoor cone-type) and horn speakers may be used with PagePac 6 Plus. For best performance, use only the type speaker recommended for your situation (see below), and do not exceed the number of speakers or speaker run length maximums shown below.

Recommended Speakers

PAGING AREA	MOUNTING LOCATION	SPEAKER TYPE	AT&T ORDER NO.
Open or Closed Office Areas, Conference Room Etc.	On Wall or Ceiling	Universal Cabinet	PEC 53511 COMCODE 403307770
	Above the Ceiling	Recessed Ceiling	PEC 53514 COMCODE 403307796
Hallways	On Wall or Ceiling	Universal Cabinet	PEC 53511 COMCODE 403307770
Private Office	Placed on Desk or Wall	Desktop or Wall	PEC 53516 COMCODE 403307804
Open Industrial Area or Outdoors	On Wall or Pole at Least 15 Ft. Above Ground	Horn	PEC 53512 COMCODE 403307788

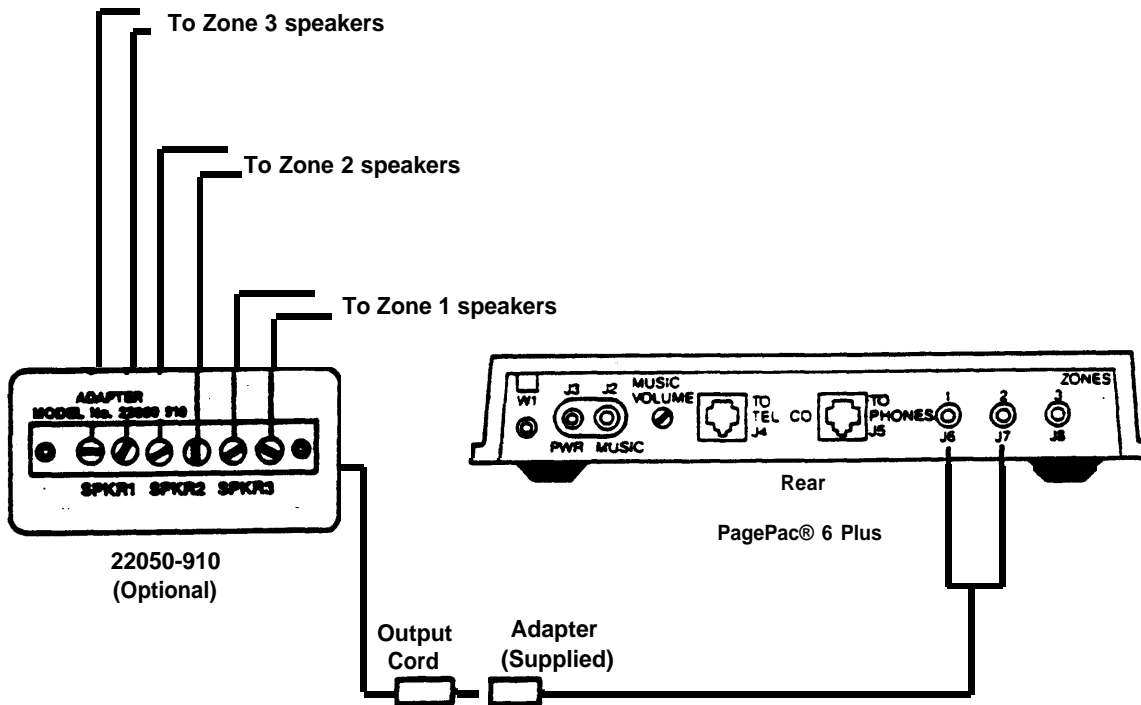
Speaker Limitations

	STANDARD INDOOR SPEAKERS	HORN SPEAKERS
Total Speakers	24 (maximum 8 per zone)	6 (maximum 2 per zone)
Max. Length of Speaker Run (24 AWG Wire)	100 Ft.	100 Ft.

*If using both horns and standard speakers in the same zone, each horn counts as four standard speakers.

In some situations you may be able to extend a run farther than 100 feet, by using fewer speakers and/or larger wire.

Maximum 8 wall or ceiling speakers or
2 horn speakers per zone.



Speaker connections to PagePac 6 Plus

Required Materials

- PagePac loudspeakers recommended for use with PagePac 6 Plus
- 24 AWG speaker wire
- Standard installation tools—screwdriver, wire cutters/strippers, pliers, hammer, etc.

Installation Procedure

1. Install the speakers according to the directions supplied with them.
2. Connect each zone to the appropriate ZONES jacks on the PagePac 6 Plus (see above).

NOTE: Use RCA-type plug adapters (3) supplied with unit, to prepare speaker cable for connection to zone jacks.

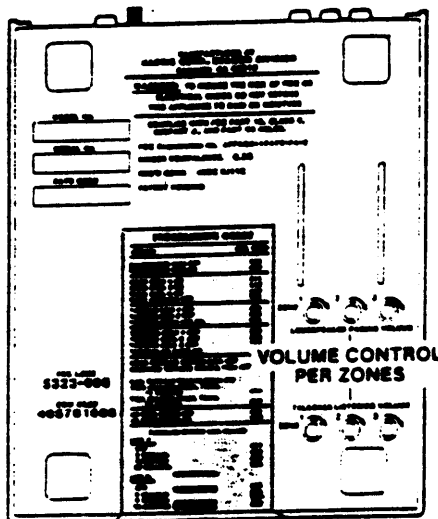
OPERATION

OPTIONS—AND HOW TO SELECT THEM

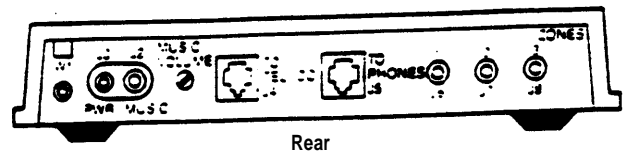
You may select the following options for your PagePac 6 Plus.

- **Zone Paging**—PagePac 6 Plus has three separate paging zones. Each zone is a specific group of speakers in which the page will be heard. If you don't want zone paging, you can set the unit for all-call only (paging from all speakers).
- **Talk-Back**—Two-way communication between the telephone and speakers.
NOTE: When talk-back is used in a noisy zone, we recommend no more than two talk-back speakers be used in that zone. This reduces the problems caused by background noise. Talk-back should normally not be used with all-call paging.
- **Talk-back Warning Tones**—These tones are heard in the loudspeakers to let people know talk-back is on. The INITIAL tone sounds once at the beginning of the page. The REPETITIVE tones should sound every 15 or 30 seconds (your choice).
- **Confirmation Tone**—A single tone heard in the telephone that indicates you can page.
- **Background Music**—You must provide a source of music. Use the MusicMate or an alternate source such as a FM tuner, tape deck, leased source, etc.
- **Automatic Outside Line Access**—Connects you to the telephone line without dialing 9. You will have to wait either 2, 4, or 10 seconds depending on the option selected. The option may also be turned off.

Bottom View



The bottom panel of the PagePac 6 Plus contains FCC information, and programming dial codes, as well as paging and talk-back volume controls. The music volume control and all connections are on the back panel.



PagePac 6 Plus Bottom & Back Panels

Setting Options

1. Pick up the telephone and listen for PagePac 6 Plus dial tone (on key systems, select the desired line first).
2. Dial the number for the option desired (see the table to the right), and listen for program tone (two short tones).
NOTE: If you hear reorder tone (a fast busy tone), a dialing error has been made. Hang up and start over.
3. Replace the receiver.

NOTE: This chart is also in the bottom of the PagePac 6 Plus chassis.

To select the desired option, dial the code shown.

OPTION	DIAL CODE
Confirmation tone - off*	834
Confirmation tone - on	835
Music in Zone 1 - on	811
Music in Zone 2 - on	812
Music in Zone 3 - on	813
Music in all zones - off*	814
Talk-back on Line 1 - off	891
Talk-back on Line 2 - off	892
Talk-back on Lines 1 and 2 - on*	893
Talk-back in Zone 1 - off	821
Talk-back in Zone 2 - off	822
Talk-back in Zone 3 - off	823
Talk-back in all zones - on*	824
Initial Talk-back Warning Tone - off†	831
Repetitive Talk-back Warning Tone - off*	832
Both Talk-back Warning Tones - on*	833
Time between Repetitive tones - 15 seconds	841
Time between Repetitive tones - 30 seconds*	842
All-zone paging - off	851
All-zone paging - on*	852
Automatic Outside Line Access	
<u>LINE 1</u>	
- off	861
- 2 sec.	862
- 4 sec.*	863
-10 sec.	864
<u>LINE 2</u>	
- off	865
- 2 sec.	866
- 4 sec.	867
-10 sec.	868

*Indicates the default or factory-set condition for each option. If power goes off, all options are reset to their default values.

†Check local regulations before shutting off either the Initial or Repetitive talk-back warning tones.

TONES YOU HEAR—AND WHAT THEY MEAN

In addition to the Confirmation tone and Talk-Back Warning tones already described, PagePac 6 Plus has several other tones that help you use the system.

Dial Tone—PagePac 6 Plus dial tone serves the same purpose as the regular dial tone. It is the first tone you hear after picking up the telephone

Busy Tone—PagePac 6 Plus busy tone indicates that the zone you want to page is in use.

Reorder Tone—Reorder tone is a “fast” busy tone. When you hear it, you have made some error. Hang up and start over.

Program Tone—Program tone is two very short tones. You will hear it after selecting an option. It indicates the option was successfully selected.

Call Waiting Tone—Call waiting tone is two short tones (but longer than program tone). You will hear it if a call comes in while you are paging.

HOW TO PAGE

You can page to all zones at once, or to a single zone or combination of zones. To page, pick up the telephone and listen for PagePac 6 Plus dial tone, then dial the number for the zone or zones you want. See below.

<u>Paging Area</u>	<u>Dial</u>
Zone 1	1
Zone 2	2
Zone 3	3
Zone 2 and 3	4
Zone 1 and 3	5
Zone 1 and 2	6
All Zones	7

When you replace the telephone, do so gently. This will prevent a “thud” from going out over the speakers.

If talk-back is on, the voice of the person at the telephone controls the page/talk-back switch. If this person speaks or makes any noise, anyone using talk-back will be cut off. After the person at telephone is quiet, it takes about one-half second for the speakers to go into talk-back.

HOW TO USE YOUR TELEPHONE

Incoming calls are handled normally. However, before making a call, you must either dial 9, or wait until you hear the regular dial tone.

Placing A Call:

1. Pick up the telephone and listen for PagePac 6 Plus dial tone (on key systems, select desired line).
2. Dial 9, and listen for the regular dial tone. Or, you may wait for the regular dial tone. If you want the operator, dial 0 as soon as you hear PagePac 6 Plus dial tone.
NOTE: If you hear Reorder Tone (a fast busy tone), a dialing error has been made. Hang up and start over.
3. Dial the number.

Dialing 9 gives you regular dial tone immediately. If you wait, PagePac 6 Plus will timeout and then provide regular dial tone. How long this takes depends on which Automatic Outside Line Access time period you select.

NOTE: To dial emergency 911, dial 9 or wait for the regular dial tone, and then dial 911.

If a call comes in while you are preparing to page, but have not dialed the zone(s), the caller will be connected directly to your phone (with no ring).

If a call comes in while you are paging, the page will be interrupted for a moment, and you will hear Call Waiting Tone (two short tones). Hang up, and the phone will ring. You may then answer the call normally.

Using Last Number Redial With PagePac 6 Plus

If your telephones have last number redial, you can use it with PagePac 6 Plus. The exact procedure depends on whether or not your phone has a PAUSE button.

Example: Without A PAUSE Button

1. Lift the telephone handset (on a key system, select the desired line), and *wait* for the regular dial tone. Then, dial the number.

NOTE: The Automatic Outside Line Access should be set for 2 seconds. (Dial option code 862 for Line 1, or 866 for Line 2.)

To redial:

2. Repeat Step 1, then press the redial button on the telephone (or on some phones, dial the redial code).

Example: With A PAUSE Button

To place initial call:

1. Lift telephone receiver and listen for PagePac 6 Plus dial tone.
2. Dial 9.
3. Press PAUSE button and dial number.

To redial:

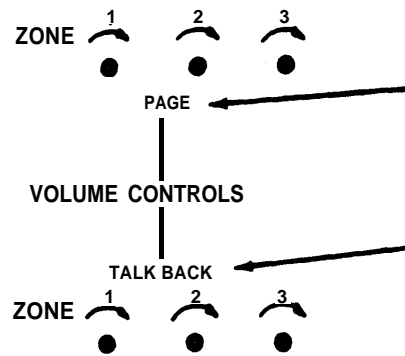
4. Lift the telephone receiver, listen for PagePac 6 Plus dial tone, wait for regular dial tone (see Note under: “Without A PAUSE Button” above).
5. Press redial button (or on some phones, dial redial code).

NOTE: If you have problems using the “With A PAUSE Button” procedure, try the “Without A PAUSE Button” procedure.

NOTE: Using PagePac 6 Plus with a PBX—To prevent unintentional pages, connect PagePac 6 Plus on a trunk that has a normally unused access code (for example, a trunk that is accessed by dialing 8). This trunk may also be used for outgoing and incoming calls.

HOW TO ADJUST PAGE, TALK-BACK AND MUSIC VOLUME

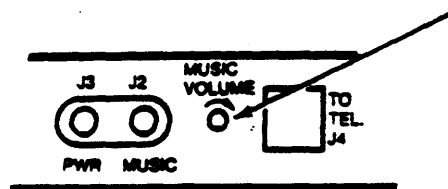
You can control the sound volume of paging, music, and talk-back with these controls.



Bottom of Unit

PAGE VOLUME CONTROLS— Controls page volume in indicated zone; also affects music volume in that zone. Adjust **PAGE VOLUME CONTROLS** before adjusting **MUSIC VOLUME** Control.

TALK-BACK VOLUME CONTROLS— Controls volume of talk-back from indicated zone.



Rear Of Unit

MUSIC VOLUME— Controls music volume in all zones without affecting page volume.

Page and talk-back volume controls for each zones are on the bottom of the unit. A single music volume control, located on the rear panel, adjusts background music in all zones. Use a miniature flat-blade screwdriver to set these **PAGE AND TALK-BACK** controls. **DO NOT** force these controls past their stops. They rotate approximately 300 degrees.

NOTE: PagePac 6 Plus has an Operator Access feature. Whenever you dial “0” before selecting a paging zone, the unit will automatically place the call to the operator.

FCC REGULATIONS PERTAINING TO THIS EQUIPMENT

FCC (PART 15)

Radio Frequency Interference

The PagePac 6 generates and uses radio frequency energy and if not installed and used in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. Testing has been conducted for compliance with the limits for Class B device in accordance with the specifications in Subpart J of Part 15 of the FCC Rules. This testing is designed to provide reasonable protection against such interference. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the PowerMate unit off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the radio or TV receiving antenna
- Relocate the PagePac 6 with respect to the radio or TV receiver or vice-versa.
- Plug the PagePac 6 into a different outlet so that it and the radio or TV receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet, "How To Identify and Resolve Radio-TV Interference Problems," helpful. This booklet was prepared by the Federal Government Printing Office, Washington, DC 20402. Stock order No. 004-000-00345-4.

FCC (PART 68)

This equipment is registered with the Federal Communications Commission (FCC) in accordance with Part 68 of its Rules. The FCC requires that the manufacturer provide you with the following information:

1. Connection and Use with Nationwide Telephone Network

The FCC requires that you connect your telephone equipment to the nationwide telephone network through a modular telephone outlet or jack. The modular telephone outlet or jack to which the equipment must be connected is a USOC RJ11C.

Registered equipment may not be used with Coin Telephone Lines. Equipment may be used with Party Lines in areas where state tariffs permit such connections and when equipment is adaptable for such use.

2. Information You May Need to Supply the Telephone Company.

Upon request of your local telephone company, you are required to provide them with the following information:

- A. The lines to which you will connect the telephone equipment.
- B. The FCC registration number and ringer equivalence number (REN). Both numbers are listed on the equipment label. The REN is useful to determine how many devices you may connect to your telephone line and still have them ring when your telephone line is called. In most, but not all, areas, the sum of all RENs per line should be 5 or less. You may want to contact your local telephone company. The local telephone company must also be notified upon final disconnection of the equipment from the local telephone company lines.

WARRANTY INFORMATION

LIMITED WARRANTY AND LIMITATION OF LIABILITY

AT&T warrants to you that the product will be free from defects in material and workmanship when title passes to you. If you notify AT&T that the product has failed to operate as warranted within one year of the date title passes to you, AT&T will, at its option, repair or replace the component or components of the product that failed to operate as warranted. Any repair or replacement components may be new or refurbished and will be provided on an exchange basis. If AT&T determines that the product cannot be repaired or replaced, AT&T will refund the purchase price to you.

If you purchased the product directly from AT&T, AT&T will perform warranty repair on your premises in accordance with the terms and conditions of AT&T's "Business Day" or "Around-the-Clock" warranty plans. The details of AT&T's warranty plans may be obtained from AT&T. If you purchased the product from an authorized dealer, you will be covered by AT&T's authorized dealer warranty plan during the warranty period. Contact your authorized dealer for details of AT&T's authorized dealer warranty plan. **AT&T's obligation to repair, replace or refund as set forth above is your exclusive remedy.**

The limited warranties provided above do not cover damages, defects, malfunctions or product failures caused by:

- Failure to follow AT&T's installation, operation or maintenance instructions;
- Unauthorized modification or alteration of the product or its components;
- Product abuse, misuse or the negligent acts of persons not under the reasonable control of AT&T;
- Actions of third parties and acts of God other than power surges (e.g., lightning).

This limited warranty applies only to the product purchased directly from AT&T or purchased directly from an authorized AT&T dealer. This limited warranty does not apply to products purchased or operated outside the United States.

You may be required to provide AT&T with proof of purchase before AT&T will perform any warranty repair or provide any warranty replacements.

EXCEPT AS SPECIFICALLY SET FORTH ABOVE, AT&T, ITS AFFILIATES, SUPPLIERS AND DEALERS MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY DISCLAIM ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

EXCEPT FOR PERSONAL INJURY, THE LIABILITY OF AT&T, ITS AFFILIATES, SUPPLIERS AND DEALERS FOR ANY CLAIM, LOSS, DAMAGE OR EXPENSE FROM ANY CAUSE WHATSOEVER, REGARDLESS OF THE FORM OF THE ACTION, WHETHER IN CONTRACT, TORT OR OTHERWISE, SHALL NOT EXCEED THE LESSER OF DIRECT DAMAGES PROVEN OR THE REPAIR OR REPLACEMENT COST OF THE SYSTEM OR THE SYSTEM'S PURCHASE PRICE. IN NO EVENT SHALL AT&T, ITS AFFILIATES, SUPPLIERS AND DEALERS BE LIABLE FOR INCIDENTAL, RELIANCE, CONSEQUENTIAL OR ANY OTHER INDIRECT LOSS OR DAMAGE (INCLUDING LOST PROFITS OR REVENUES SUSTAINED OR INCURRED IN CONNECTION WITH THE SYSTEM). THIS LIMITATION OF LIABILITY SHALL SURVIVE FAILURE OF THE EXCLUSIVE REMEDY SET FORTH IN THE LIMITED WARRANTY ABOVE.

INSTALLATION AND MAINTENANCE INFORMATION

There are several types of installation and maintenance plans available from AT&T and/or your dealer. Please call your AT&T sales representative or authorized dealer for details.

For warranty service, contact your AT&T representative or authorized dealer.

©Copyright 1988 AT&T
All rights reserved Printed in U.S.A.

999-500-212
Issue 1, Dec. 1988