

PAGEPAC 6 PLUS V-5323008

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INTRODUCTION

PagePac[®] 6 Plus is a compact, 6-watt, voice-paging system that integrates three paging zones, each with talkback capability, into your telephone system. PagePac 6 Plus can be used with most telephone systems, from single-line residential systems to electronic key and PBX systems.

SPECIFICATIONS

FEATURES

- Works with either one or two lines, and provides two separate paging accesses when used with two lines
- Provides three separate paging zones, each with a 2-watt output, as well as “all call” paging and zone groups
- Talkback is available in all three zones
- Supports both standard (indoor) and horn (outdoor) speakers.
Compatible with voice coil speakers only.
- FCC and CSA approved
- Controls background music in all three zones (music must be provided from a separate source, such as an external music source, FM tuner, a tape deck, or leased source). **See Note.**
- Comes with its own 12-VAC power supply and plugs into any standard 120-VAC, 60 Hz outlet
- User options are telephone dial selected (DTMF or Pulse)

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.


Dimensions/Weight

- 9.70"W x 8.60"H x 1.50"D
(24.64cm x 21.84cm x 3.81)
- 0.194 lbs (.087 kg)

IMPORTANT SAFETY INSTRUCTIONS

For important Secondary Circuit Protection information refer to pages 13-14.

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation, to protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8.  **WARNING:** RISK OF ELECTRICAL SHOCK, EQUIPMENT MUST BE PROPERLY GROUNDED. Your equipment requires a properly grounded three-prong power receptacle for safe operation. Have the receptacle checked by a qualified electrician before connecting this equipment. Do not cut or remove the third (ground) prong from the power transformer. Do not use two-prong extension cords or adapters to defeat the safety features of this equipment. If you have a two-prong receptacle, it must be replaced with a three-prong receptacle, installed by a qualified electrician.
9. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
10. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
12. To reduce the risk of electric shock, do not disassemble this product, but take it to a qualified service-man when some service or repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.

13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power supply cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally by following the operating instructions. Adjust only those controls, that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance.
14. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
15. Do not use the telephone to report a gas leak in the vicinity of the leak.

SAVE THESE INSTRUCTIONS.

GENERAL INFORMATION

Please adhere to the following precautions:

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

INSTALLING THE PAGEPAC 6 PLUS WITH ONE OR TWO TELEPHONE LINES

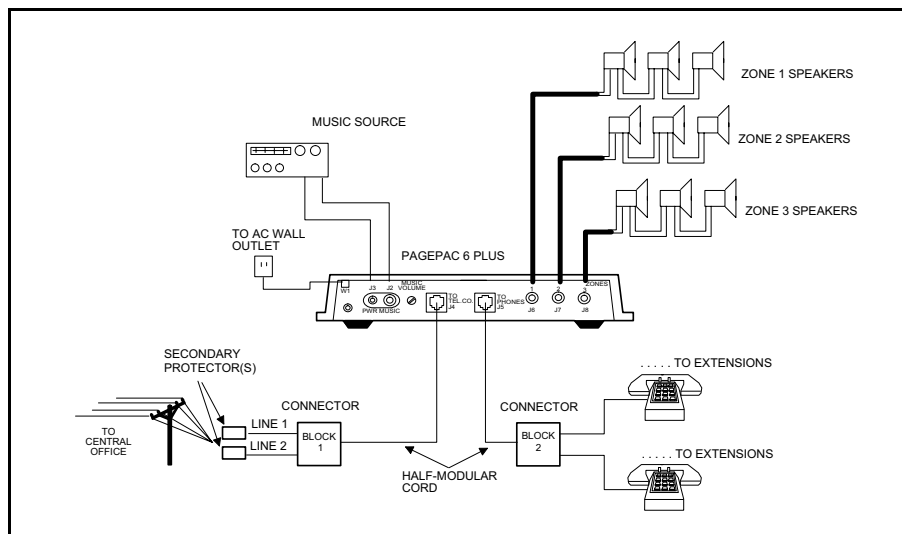


Figure 1. PagePac 6 Plus -- Typical Installation

Installation Procedure

1. Connect PagePac® 6 Plus to the incoming telephone line(s). Connections are shown in Figure 2.
2. Connect PagePac 6 Plus to line jack(s) on telephone system.
3. Connect speakers to PagePac 6 Plus with RCA-type phono plugs and “B” crimp-type wire connectors (provided).
4. (Optional) You may connect an external music source such as a FM tuner, tape deck, leased source, etc.
5. 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.

NOTE: If optional music source is used, it must have a 600 Ohm less than 1 volt output to drive the PagePac 6 Plus (usually the output that would drive an auxiliary head set). Anything greater than this can harm the PagePac 6 Plus and void the warranty.

Single Line—Use Line 1 Connection Only

1. Install the first connecting block and attach the incoming line(s) to the block.
2. Attach the half-modular connecting block, and connect the other end to the PagePac 6 Plus (see Figure 2).
3. Install the second connecting block and attach the line(s) to the telephone(s).
4. Attach the second half-modular cord to this block and connect the other end to the Pagepac 6 Plus.

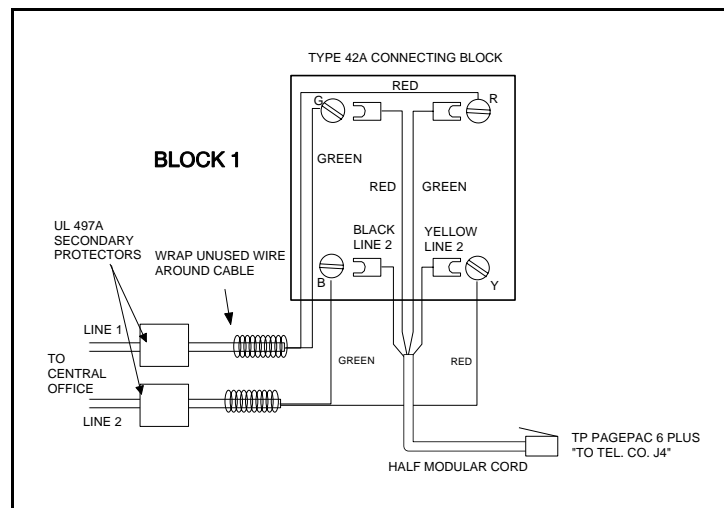


Figure 2. Attaching the Half-Modular Cord

CONNECTING SPEAKERS TO PAGEPAC 6 PLUS

WARNING: DO NOT USE 70 VOLT SPEAKERS! USE PAGEPAC VOICE COIL SPEAKERS!

Both standard speakers (indoor cone-type) and horn speakers may be used with PagePac® 6 Plus. Use only the type speaker recommended for your situation, and do not exceed the number of speakers or speaker run length maximums shown in Table 1.

Table 1. Speaker Limitations

	Standard Indoor Speakers (Voice Coil Only)	Horn Speakers (Voice Coil Only)
Total Speakers	18 (maximum 6 per zone)	3 (maximum 1 per zone)
Speakers Per Run*	4	1
Maximum Length of Speaker Run (24 AWG Wire)	600 Feet	300 Feet
*A run is a line of one or more speakers that connects directly to PagePac 6 Plus. NOTE: If using both horns and standard speakers in the same zone, each horn counts as six standard speakers. NOTE: Maximum six-wall or ceiling speakers or one horn speaker per zone.		

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).

Special Notes

- Use RCA-type plug adapters (3) supplied with unit, to prepare speaker cable for connection to zone jacks.
- This Valcom equipment requires a properly grounded three-prong AC power receptacle for safe operation. Have the receptacle checked by a qualified electrician before connecting this equipment. Do not cut or remove the third (ground) prong from the power cord. Do not use two-wire extension cords or adapters to defeat the safety features of this equipment. If you have a two-prong receptacle, it is very important to have it replaced with a three-prong receptacle, installed by a qualified electrician.
- Whenever possible, the PagePac 6 Plus should be plugged into the same receptacle as the voice system.
- The PagePac 6 Plus is designed to drive a 45 Ohm load.

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.
- **Group Zones**—PagePac 6 Plus allows for paging over specific zone groups. These are available by dialing special codes (see How to Page).
- **Talkback**—Two-way communication between the telephone and speakers.
- **Talkback Warning Tones**—These tones are heard in the loudspeakers to let people know talkback 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).

Note: When talkback is used in a noisy zone, we recommend no more than two talkback speakers be used in that zone. This reduces the problems caused by background noise. Talkback should normally not be used with all call paging.

- **Confirmation Tone**—A single tone heard in the telephone that indicates you can page (see Tone You Hear — And What They Mean for a list of tones).
- **Background Music**—You must provide a source of music. Use an external music 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.

The bottom panel of the PagePac® 6 Plus contains FCC information, and programming dial codes, as well as paging and talkback volume controls (see Figure 3). The music volume control and all connections are on the back panel (see Figure 3).

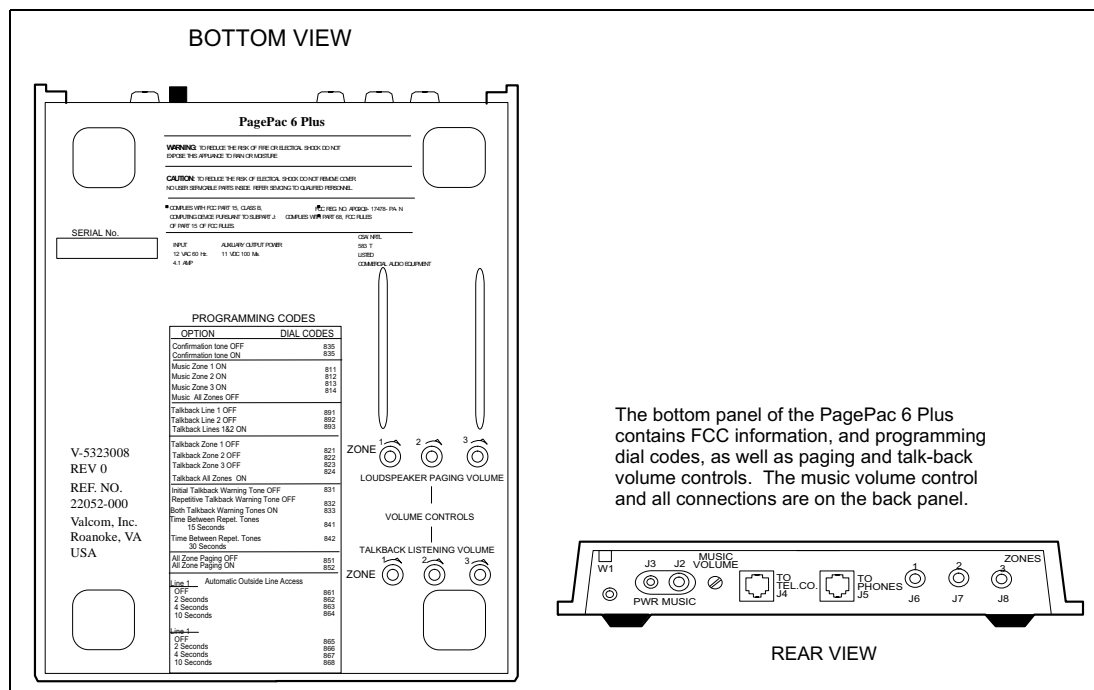


Figure 3. PagePac 6 Plus Bottom and Back Panel

Setting Options

To select the desired option, dial the code shown.

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 Table 2 or the simplified user guide supplied), and listen for program tone (two short tones).
3. Replace the receiver.

Note: If you hear reorder tone (fast busy tone), a dialing error has been made. Hang up and start over. Table 2 is also on the bottom of the PagePac 6 Plus chassis.

Table 2. Programming Options

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
Talkback on Line 1 - OFF	891
Talkback on Line 2 - OFF	892
Talkback on Lines 1 and 2 - ON*	893
Talkback in Zone 1 - OFF	821
Talkback in Zone 2 - OFF	822
Talkback in Zone 3 - OFF	823
Talkback in all zones - ON*	824
Initial talkback Warning Tone - OFF**	831
Repetitive talkback Warning Tone - OFF*	832
Both talkback 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	
LINE 1	
OFF	861
2 sec.	862
4 sec.*	863
10 sec.	864
LINE 2	
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 talkback warning tones.	

TONES YOU HEAR -- AND WHAT THEY MEAN

In addition to the confirmation tone and talkback warning tones already described, PagePac® 6 Plus has several other tones that help you use the system.

- **Dial Tone**—PagePac 6 Plus dial tone indicates that you may dial the number for the desired paging area.
- **Regular Dial Tone**—Phone company dial tone indicates that you may dial a phone number.
- **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. Dialing 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.

PAGE DIAL CODES

Paging Area	Dial
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

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

PLACING A CALL

1. Pick up the telephone and listen for PagePac 6 Plus dial tone (on key systems, select desired line).

Note: If you hear Reorder Tone (a fast busy tone), a dialing error has been made. Hang up and start over.

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

3. Dial the number. Dialing 9 gives you regular dial tone immediately. If you wait, PagePac 6 Plus will time out and then provide regular dial tone. How long this takes depends on which Automatic

Outside Line Access time period you select unless you have selected “Off” for Outside Line Access, in which case you will have to dial the 9.

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.

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.

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

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

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

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:

1. Lift the telephone receiver, listen for PagePac® 6 Plus dial tone.
2. Press redial button (or on some phones, dial redial code).

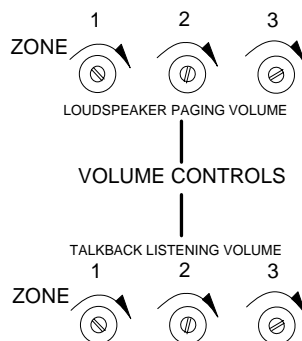
Note: If you have problems using the “With A PAUSE Button” procedure, try the “Without A PAUSE Button” procedure.

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, TALKBACK AND MUSIC VOLUME

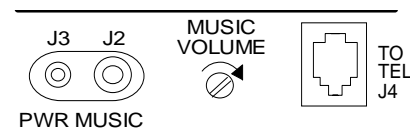
PAGE VOLUME CONTROLS—These control page volume in indicated zone; they also affect music volume in that zone. Adjust PAGE VOLUME CONTROLS before adjusting MUSIC VOLUME Control.

TALKBACK VOLUME CONTROLS—These control volume of talkback from indicated zone.



BOTTOM OF UNIT

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



REAR OF UNIT

OVERVIEW

The PagePac® 6 Plus contains no user-serviceable parts, and should be repaired only by authorized personnel. There are several types of installation and maintenance plans available from Valcom or your dealer. For information or warranty service, call your Valcom sales representative or authorized dealer. To adjust paging volume, turn each zones PAGE VOL control clockwise to increase or counterclockwise to decrease volume.

If your paging system fails to operate properly, follow the suggestions in the “Trouble Analysis Table” (Table 3), before calling for professional assistance.

TROUBLESHOOTING

Table 3. Trouble Analysis

Problem	Corrective Action
No sound from one or more speakers in any zone while others work.	Check volume control on problem speaker(s).
	Check page volume control for each zone, located on the bottom of unit.
	Check all connections to speakers.
	Check wire to speakers.
	Replace bad speaker with good one. If speaker cannot be replaced immediately, wire around it to ensure service to the remaining speakers.
	NOTE: Look for a mix of voice coil and 70 volt speakers. Replace all 70 volt speakers with voice coil type.
Music does not work, but paging does.	Check music volume control on rear of paging unit.
	Adjust volume control on music source.
	Check the programming options.
Do not hear page.	Ensure there is power to the paging unit. LED is on.
	Check page volume controls on bottom of unit.
	Check all connections and wire.
	Check for correct speakers. The correct speaker should be voice coil type only.
	Connect a 2500-Type telephone to J5, to test.
No all-call paging.	All-call is programmed.
No talkback or very low volume.	Ensure talkback is programmed.
	Check talk back volume controls on the bottom of the unit.
Poor talk back or noisy talk back.	Ensure speaker does not run near fluorescent light fixtures, electric motors, etc.
Paging and music are garbled.	Check talkback volume controls on bottom of paging unit.
	Check speaker wire for shorts.
	Check all connections.
	Ensure that there are not too many speakers on wire run or zone.
Unable to access outside line.	Ensure outside line access dial code is programmed.
	Check to be sure outside line is connected to unit.
	Check for dial tone on outside line connection.

TECHNICAL ASSISTANCE

When calling, have a VOM and a telephone test set available and call from the job site. Call (540) 427-3900 and ask for PagePac Technical Support, or call (540) 427-6000 for Valcom 24-hour Automated Support or visit our websites at <http://www.pagepac.com> and www.valcom.com.

Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and the nature of the problem. Send the unit to:

Valcom, Inc.
PagePac® Repair Dept.
5614 Hollins Road
Roanoke, VA 24019-5056

FCC REGULATIONS PERTAINING TO THIS EQUIPMENT

FCC (Part 15)

Radio Frequency Interference

The Valcom PagePac® 6 Plus 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 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 Plus with respect to the radio or TV receiver or vice-versa.
- Plug the PagePac 6 Plus 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:

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.

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:

1. The lines to which you will connect the telephone equipment.
2. 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.

CSA INFORMATION

The Canadian equivalent of the RJ11C connector is CA11A. Where applicable, CA11A is to be understood for other references to RJ11C in this manual.

This product is CSA Certified.

In Canada, the DOC registration number appears on the maple-leaf label, and the Load Number is under the maple-leaf label.

NOTICE:

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.



CAUTION:

User should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

SECONDARY CIRCUIT PROTECTION

IMPORTANT INFORMATION

This equipment is for use on telephone wiring containing a secondary circuit protector.

This paging equipment requires a Secondary Circuit Protector where applicable (see Figure 7).

The secondary circuit protector must be located between the primary protector and the paging equipment. Refer to the Safety Information below.

SAFETY INFORMATION

- The Secondary Circuit Protector is used when connecting paging equipment directly to telephone lines that may be exposed to high voltage power lines.
- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Use appropriate Valcom approved device.

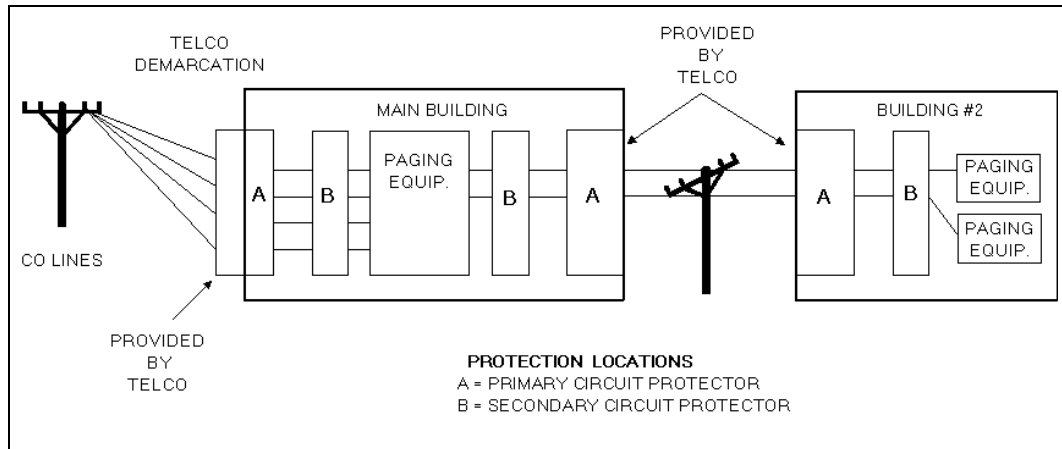


Figure 7. Example Configurations Requiring Secondary Protection When Paging Equipment is Connected Directly to the Telephone Network