
Unity II Redial Business Terminal

User Guide



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telecom

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Introduction

General information

The Unity II Redial Business Terminal is a single-line set designed and manufactured with care in the United States of America to meet Northern Telecom's high standards of quality. This compact and versatile unit provides years of pleasurable and reliable service.

The Unity II Redial Business Terminal is fully modular and compatible with PBX, 1A2, CO, and stand-alone centrex applications. "A" lead control is prewired into the terminal.

In addition, all telephones manufactured by Northern Telecom are hearing-aid compatible in accordance with the Federal Communications Commission (FCC) regulations, Section 68.316.

Carton contents

Your Unity II Redial Business Terminal carton should contain the following items:

- Unity II Redial Business Terminal
- Modular handset
- Directory card and cover
- Modular seven-foot line cord
- Modular nine-foot coiled handset cord
- *User Guide.*

If any of these parts are missing from your Unity II Redial Business Terminal carton, please call your telephone service personnel, or call Northern Telecom's toll-free number, (800) 558-9936, from anywhere in the United States.

Installation

CAUTION

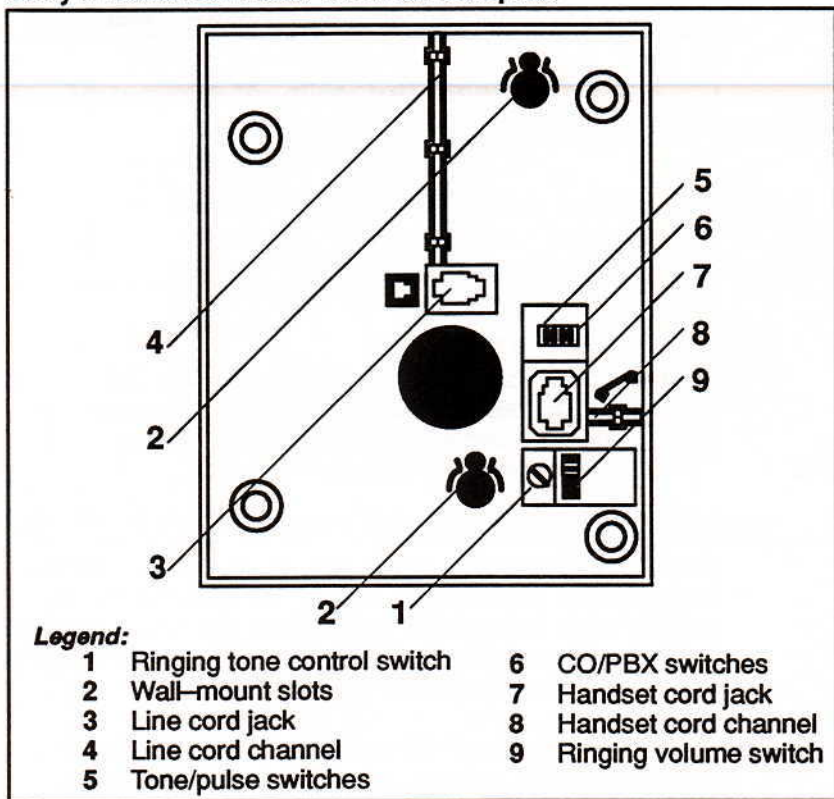
Before installing your Unity II Redial Business Terminal, make certain that you have a telephone jack properly wired for this unit. Plugging this terminal into a jack wired for a proprietary telephone, such as the Meridian SL-1 or Meridian SL-100, may damage your terminal. In some states, customers are permitted to install their own jacks. Connection of this telephone to the public switched network must be through an FCC-standard network interface jack (RJ11W or RJ11C) which can be ordered from your local telephone company. Do not insert the plug at the free end of the handset cord directly into a wall or baseboard jack. Such misuse may damage the handset.

Desk mounting

If your terminal sits on a desk or similar surface:

1. Insert one end of the flat line cord into the line cord jack located on the terminal's baseplate, until you hear a "click." (See Figure 1, item 3.)
2. Route the line cord through the line cord channel. (See Figure 1, item 4.)
3. Insert the other end of the line cord into the wall or baseboard telephone jack.
4. Insert one end of the coiled handset cord into the handset cord jack, located on the terminal's baseplate, until you hear a "click." (See Figure 1, item 7.)
5. Route the cord through the handset cord channel. (See Figure 1, item 8.)
6. Insert the other end of the coiled handset cord into the handset until you hear a "click."
7. Place the handset on hook, then pick it up and check for dial tone.

Figure 1
Unity II Redial Business Terminal baseplate

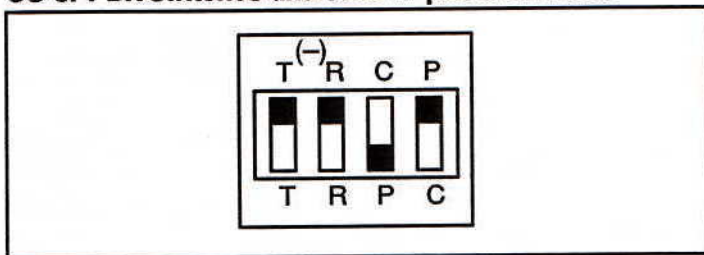


Setting switches

The CO or PBX switches

On the base of your terminal are four two-position switches. (See Figure 1, items 5 and 6, and Figure 2.) The right two switches are for PBX or centrex selection. All terminals are shipped with these two switches set in their normal positions, as shown. These settings are correct for most installations. However, sidetone adjustments can be made by changing the right two switches from "P" (PBX) to "C" (centrex).

Figure 2
Unity II Redial Business Terminal
CO or PBX switches and tone or pulse switches



The tone or pulse switches

The left two switches are for tone or pulse selection. All terminals are shipped with the left two switches set for the tone mode, as shown. However, if pulse dialing is desired, move the "T" and "R" switches away from the (-) symbol.

The ringing volume control switch

On the base of your terminal is a three-position ringing volume control switch. (See Figure 1, item 9.) For maximum ringing volume, set the switch to the "HI" position. For minimum ringing volume, set the switch to the "LO" position. If no audible ringing is desired, set the switch to the "OFF" position.

The ringing tone control switch

On the base of your terminal is a ringing tone control switch. (See Figure 1, item 1.) With a small, flat-bladed screwdriver or a similar tool, turn the switch clockwise or counter-clockwise to vary the ringing pitch of the audible ringer. This feature is helpful in distinguishing the ringing between two adjacent terminals.

Wall mounting

Mounting this terminal on a wall jack requires a special wall-mounting bracket. To order it, call your telephone service personnel or Northern Telecom's toll-free number, (800) 558-9936, from anywhere in the United States. This bracket has tabs that connect with the two keyhole mounting slots on the bottom of the terminal. (See Figure 1, item 2.) To connect this terminal to a wall jack, follow the directions enclosed with the bracket.

Installing the directory card

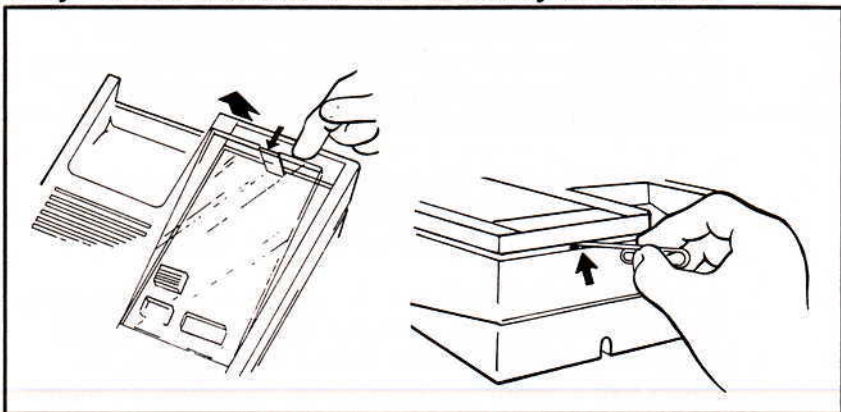
Your Unity II Redial Business Terminal comes equipped with a directory card and a clear plastic cover assembled in place.

To remove the directory card

1. Lift the top edge of the clear plastic cover with a fingernail or suitable object. (See Figure 3.)
2. Press down lightly on the retaining leg of the plastic cover. The cover can now be removed. The plastic cover can also be removed by inserting a paper clip in the slot at the rear of the terminal and pressing against the retaining leg. (See Figure 3.)
3. Type or print the area code and telephone number for this terminal on the directory card, along with any frequently called numbers.

Figure 3

Unity II Redial Business Terminal directory card removal



To replace the directory card

1. Place the directory card into position.
2. Locate the clear plastic cover so that the tabs at the lower edge are in the slots on the face of the terminal.
3. Align the retaining leg with the slot at the top of the face and gently push down on the cover until it snaps into place.

Features

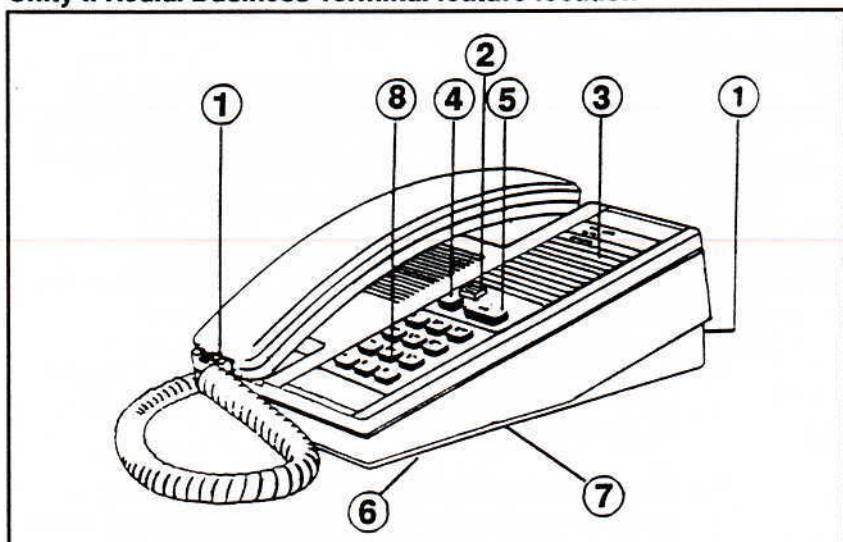
See Figure 4 for the location of the following features.

1. **Plug-ended cords.** This terminal is equipped with modular handset and line cords which allow for easy installation, repair, and maintenance.
2. **Message waiting and visual ringing indication.** A light provides indication of a message waiting when this service is provided. This light will also flash when the phone rings.
3. **Directory card.** This removeable card is located under a clear plastic cover and can be used to record personal telephone numbers.
4. **Last Number Redial (LNR) key.** The LNR key activates the last number redial function. The last telephone number you dialed (up to 32 digits) is automatically stored in the redial memory. If you wish to call that number again after hanging up, lift the handset, wait for dial tone, and then press the LNR key. The number is redialed automatically.
5. **LINK (Link) key.** When pressed, this key causes an interruption in the telephone line current for approximately one-half second to provide access to network features.
6. **Ringing tone control.** This switch, located on the baseplate, allows users of sets located near each other to vary the ringing tones for rapid identification of the set which is ringing. The ringing tone is modified by using a small flat-bladed screwdriver (or equivalent) to adjust the tone. Turning the switch counter-clockwise lowers the tone frequency; turning the switch clockwise raises the tone's frequency.
7. **Ringing volume control.** The Unity II Redial Business Terminal is equipped with a pleasant-sounding ringer. A slide switch on the baseplate allows you to set the ringing volume to either "HIGH," "LOW," or "OFF" positions.

8. Pushbutton dial pad. The Unity II Redial Business Terminal has convenient pushbutton keys for tone dialing.

Figure 4

Unity II Redial Business Terminal feature location



Repair and warranty information

Repair instructions

If you experience trouble using this terminal, determine if the problem is in the unit. If the problem is not in the unit, call your telephone service personnel. If the problem is in the unit, follow one of the procedures given below.

- If the terminal is covered by a telephone company maintenance agreement, follow the procedures set forth in it for obtaining repair or replacement of the unit.
- If the terminal is covered by a Northern Telecom Warranty, follow the procedures set forth in it for obtaining repair or replacement of the unit.
- If the terminal is no longer covered by a maintenance agreement or a Northern Telecom Warranty, you may return the unit to Northern Telecom for repair or refurbishment. You will be billed for any repairs. Northern Telecom's policy and procedure for repair and refurbishment are available upon request, either by writing to:

Northern Telecom
Nashville Repair and Distribution Center (NRDC)
640 Massman Drive
Nashville, Tennessee 37210

or by calling (800) 251-1758 (toll free) from anywhere in the United States. Repairs to this terminal can be made only by Northern Telecom and its authorized agents, and by others who may be authorized by the FCC.

For sales and technical support, call (800) 558-9936 (toll free) from anywhere in the United States.

Limited warranty

Northern Telecom does not warrant this unit to be compatible with any other equipment and this warranty does not extend to defects resulting from improper installation, improper operation, alteration, abuse, or any other cause whatsoever, other than one attributable to Northern Telecom.

Northern Telecom shall not be liable for any incidental or consequential damages of any nature whatsoever for any reason whatsoever, including, but not limited to, loss, damage, or expense directly or indirectly arising from purchaser's inability to use the unit, either separately or in combination with other equipment. This warranty establishes the exclusive liability and obligation of Northern Telecom and purchaser's exclusive remedy with respect to the unit, and excludes all other warranties, whether written, oral, statutory, express, or implied, including, without limitation, the implied warranties of fitness for a particular purpose and merchantability.

Regulatory information

The following paragraphs identify and define the applicable rules and regulations of the Federal Communications Commission (FCC), your local telephone company, and Northern Telecom. This information applies only to users of this terminal in the United States.

FCC registration number

This terminal complies with Part 68, Rules and Regulations, of the FCC for direct connection to the Public Switched Telephone Network. (The FCC registration number is on a sticker on the bottom of the terminal.) Your connection to the telephone line must comply with these FCC rules:

- Use only an FCC standard RJ11W or RJ11C network interface jack to connect this terminal to the telephone line. (To connect the telephone, press the small plastic tab on the plug at the end of the telephone's line cord and insert the plug into the wall or baseboard jack until it clicks. To disconnect, press the tab and pull the plug out.)
- If a network interface jack is not already installed in your location, you can order one from your telephone service personnel. The type of jack needed varies with the telephone system and the installation location. In some states, customers may install their own jacks.
- Your terminal must not be connected to a party line or a coin telephone line.
- **You no longer have to notify the telephone company of your unit's registration number and Ringer Equivalence Number (REN).** However, you must provide this information to the telephone company upon request.

Note: FCC registration does not constitute an expressed or implied guarantee of performance. Only the Northern Telecom Warranty, provided on page 9, covers the performance of this terminal.

Signaling method

This terminal's pushbuttons allow it to signal in tones (DTMF). It can complete calls to local and long distance lines, including calls by means of computer telephone systems, such as MCI or SPRINT.

Ringer Equivalence Number (REN)

The FCC registration label, on the bottom of your terminal, includes a Ringer Equivalence Number (REN) which is used to determine the number of devices you may connect to your telephone line. A high total REN may prevent telephones from ringing in response to an incoming call and may make placing calls difficult. In most areas, a total REN of 5 should permit normal telephone operation. To determine the total REN allowed on your telephone line, consult your telephone service personnel.

Rights of your telephone company

If your terminal causes harm to the telephone network, the telephone company may discontinue your service temporarily, or ask you to remove your terminal until the problem is resolved. If possible, it will notify you in advance. If advance notice is not practical, you will be notified as soon as possible. You will be given the opportunity to correct the situation and you will be informed of your right to file a complaint with the FCC. Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your terminal. If it does, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

Radio/TV interference

Northern Telecom terminals equipped with electronic pushbuttons generate and use radio frequency energy and, if not installed and used properly and in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. **This terminal has been tested and found to comply with the limits for a Class B digital device in accordance with the specifications in Part 15 of the FCC rules. While these rules are designed to provide reasonable protection, no guarantee exists that interference will not occur in a particular installation.**

You can determine whether interference occurs by monitoring your radio or television reception while placing a call. If your terminal causes interference, one of the following measures may correct the problem. Reposition or relocate the receiving TV or radio antenna, where this may be done safely. If possible, move the terminal and the radio or television further away from each other, or connect the terminal and the radio or television to outlets on separate circuits. Consult the dealer or an experienced radio or television technician for additional suggestions.

You may find the following booklet helpful. It was prepared by the FCC.

How To Identify and Resolve Radio/TV Interference Problems
(Stock No. 004-00-00345-4; available from the U. S.
Government Printing Office, Washington, D. C. 20402)