MODEL RL5000 SERIES
AUTOMATED TELLER MACHINE

INSTALLATION GUIDE

VERSION 2.0

TDN 07100-00019B 11/2003

CORPORATE HEADQUARTERS:

522 E. Railroad Street
Long Beach, MS 39560
PHONE: (228) 868-1317
FAX: (228) 868-0437

RMA (RETURN MATERIAL AUTHORIZATION) RETURN ADDRESS:

21405 B Street
Long Beach, MS 39560

USE OF THIS PRODUCT IN A MANNER OTHER THAN THOSE DESCRIBED IN THIS MANUAL MAY RESULT IN PERSONAL INJURY.

FCC COMPLIANCE (US units with modems)

Statement of Compliance: This equipment complies with Part 68 of the FCC rules. Located in the control area of the Automated Teller Machine (ATM) is the product label. This label lists the FCC registration number and ringer equivalence number of the unit. If requested, this information must be provided to the telephone company. USCO/FIC Codes: When ordering service from the telephone company for the RL5000 series ATM, the following information should be supplied:
Universal Service Order Code (USOC): RJ-11C
The Facility Interface Code (FIC): 02LS2

Plug and Jack: The plug and jack used to connect this equipment to premise wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by ACTA. A compliant telephone cord and modular plug is provided with this product. The telephone cord is designed to be connected to a compatible modular jack that is also compliant.

Ringer Equivalent Number (REN): The REN is used to determine the number of the devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of the RENs should not exceed five (5). To be certain of the number devices that may be connected to a line, as determined by the local RENs, contact the local telephone company.

Harm to the Network: If the RL5000 series ATM causes harm to the telephone network, the telephone company will notify the customer that a temporary discontinuous of service may be required. If advanced notice is not possible, the telephone company will notify the customer as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe it's necessary.

Notification of Changes in Telephone Company Equipment: The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advanced notice in order for you to make necessary modifications to maintain uninterrupted service.

Repairs and Returns: If telecom compatibility trouble is experienced with the RL5000 series ATM, you may contact for repairs and warranty information: Triton at 1-228-868-1317

Triton Systems of Delaware, Inc.
522 East Railroad Street
Long Beach, MS 39560

If the equipment is causing harm to the network, the telephone company may request that you disconnect the equipment until the problem is resolved. Repairs should be made only by qualified factory representatives.

Party Lines: The RL5000 series ATM must not be used on party lines.

Alarm Equipment: The RL5000 series ATM should have its own dedicated phone line. Do not install the RL5000 on the same line as alarm equipment.

Electrical Safety Advisory: Telephone companies report that electrical surges, typically lightening transients, are very destructive to customer equipment connected to AC power sources. This has been identified as a major nationwide problem. A commercially available, power surge suppressor, is recommended for use with the RL5000 to minimize damage in the event of an electrical surge.

CANADIAN IC COMPLIANCE

NOTICE:

The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate terminal equipment technical requirements document(s). 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. 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 coordinated by a representative 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: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority or electrician as appropriate.

NOTICE:

The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed 5.

AVIS:

L'étiquette d'Industrie Canada identific le matériel homologué. Cette étiquette certifie que le matériel est conforme aux normes de protection, d'exploitation et de sécurité des réseaux de télécommunications, comme le prescrivent les documents concernant les exigences techniques relatives au matériel terminal. Le Ministère n'assure toutefois pas que le matériel fonctionnera à la satisfaction de l'utilisateur.

Avant d'installer ce matériel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de 1'entreprise locale de télécommunication. Le maté-riel doit également être installé en suivant une méthode acceptée de raccordement. L'abonné ne doit pas oublier qu'il est possible que la comformité aux conditions énoncées ci-dessus n'empêche pas la dégradation du service dans certaines situations.

Les réparations de matériel homologué doivent être coordonnées par un représentant désigné par le fournisseur. L'entreprise de télécommunications peut demander à l'utilisateur de débrancher un appareil à la suite de réparations ou de modifications effectuées par l'utilisateur ou à cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise à la terre de la source d'énergie électrique, des lignes téléphoniques et des canalisations d'eau métalliques, s'fl y en a, sont raccordés ensemble. Cette précaution est particulièrement importante dans les régions rurales. Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-même; il doit avoir recours à an service d'inspection des installations électriques, ou à un électricien, selon le cas.

AVIS:

L'indice d'équivalence de la sonnerie (IES) assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent étre raccordés à une interface. La terminaison d'une interface téléphonique peut consister en une combinaison de quelques dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'exède pas 5.

UNITED KINGDOM

This equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in the different countries, the approval does not, of itself, give unconditional assurance of successful operation on every PSTN network termination point. In the event of problems, contact your equipment supplier in the first instance. This unit uses only Dual-Tone Multi-Frequency (DTMF) address signaling.

EMISSIONS (EMI)

US REQUIREMENTS

This device complies with Part 15 of the FCC rules. Operation is subject to the following two (2) conditions:
1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADIAN REQUIREMENTS

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set in the Radio Interference Regulations of the Canadian Department of Communications. This Class A digital apparatus complies with Canadian ICES-003.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la Class A prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada. Cet appareil numerique de la classe A est conforme a la norme NMB-003 Canada.

UK REQUIREMENTS

Warning:

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

What's in This Installation Guide

This Installation Guide gives step-by-step procedures for completing the physical installation of a Triton RL5000. This guide covers cabinet and dispenser installation for RL5000 series units equiped with TDM-100/150, SDD, or NMD-50 dispensing mechanisms. The Installation Guide is divided into the following sections:

- ☐ **Introduction**. Summarizes the basic steps that must be completed to physically install an RL5000 ATM for specified dispenser mechanisms noted above. Note: Configuration of operating parameters is not covered! Refer to the applicable Configuration and/or Service Manual for instructions on configuring the operating parameters.

- ☐ **ATM Installation for Accessibility**. Describes the basic Americans with Disabilities Act (ADA) requirements for ATM location and access. Note: These are the general requirements that should be applicable to most installation locations. Please verify the specific requirements with the state where the ATM is to be installed prior to installation. For state contact information, you may call the ADA information line at 1-800-514-0301.

- ☐ **ATM Environmental Precautions Checklist**. Describes the general environmental precautions considered when installing the ATM. To help ensure proper operation of the ATM, ensure the environmental criteria listed in this checklist are met.

- ☐ **Cabinet Installation - Standard Anchors**. Describes how to install the ATM cabinet using standard (steel) anchor bolts.

- ☐ **Cabinet Installation - Chemical Bolts**. Describes how to install the ATM cabinet using a chemical anchoring process. Note that to install the cabinet according to these instructions you must purchase the **optional** chemical anchor install kit (Part Number 06200-00060).

- ☐ **Power and Communication**. Describes how to connect the ATM to the facility power and telephone connections.

- ☐ **Dispensing Mechanism Installation**. Describes how to install the NMD-50 dispensing mechanisms into the ATM security cabinet.

- ☐ **TCP/IP (Ethernet) Cable Installation.** Describes where to install the 10Base-T Cat-5 cable to the unit's docking board assembly.

- ☐ **VSAT Cable Installation.** Describes where to install the optional VSAT cable.

ATM INSTALLATION FOR ACCESSIBILITY

ATM INSTALLATION FOR ACCESSIBILITY

1. This document supercedes all other information provided by Triton for ATM installation for accessibility.

2. Information provided in this manual is based on federal guidelines (ADA Accessibility Guidelines for Buildings and Facilities – ADAAG), as amended through January 1998. You should verify it has not been amended. States may also have accessibility codes. These codes may be more restrictive than the federal guidelines. Please verify this with the state where the ATM is to be installed prior to installation. For state contact information, you may call the ADA information line.

3. For countries other than the US, please use the guidelines for accessibility for that country.

4. A complete copy of the ADAAG referred to here can be found at http://www.access-board.gov. Included in this document is the section of the ADAAG specifically for ATMs. For additional information on floor surfaces and other ADAAG requirements, please see the complete specification.

4.34 Automated Teller Machines.

4.34.1 General. Each machine required to be accessible by 4.1.3 shall be on an accessible route and shall comply with 4.3.4.

4.34.2 Clear Floor Space. The automated teller machine shall be located so that clear floor space complying with 4.2.4 is provided to allow a person using a wheelchair to make a forward approach, a parallel approach, or both to the machine.

4.34.3 Reach Ranges.

(1) Forward Approach Only. If only a forward approach is possible, operable parts of all controls shall be placed within the forward reach range specified in 4.2.5.

(2) Parallel Approach Only. If only a parallel approach is possible, operable parts of controls shall be placed as follows:

(a) Reach Depth Not More Than 10 inches (255 mm). Where the reach depth to the operable parts of all controls as measured from the vertical plane perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the automated teller machine or surround is not more than 10 inches (255 mm), the maximum height above the finished floor or grade shall be 54 inches (1370 mm).

(b) Reach Depth More Than 10 inches (255 mm). Where the reach depth to the operable parts of any control as measured from the vertical plane perpendicular to the edge of the unobstructed clear floor space at the farthest protrusion of the automated teller machine or surround is more than 10 inches (255 mm), the maximum height above the finished floor or grade shall be as follows:

ACCESSIBILITY SPECIFICATIONS			
REACH DEPTH		MAXIMUM HEIGHT	
Inches	Millimeters	Inches	Millimeters
10	255	54	1370
11	280	53 1/2	1360
12	305	53	1345
13	330	52 1/2	1335
14	355	51 1/2	1310
15	380	51	1295
16	405	50 1/2	1285
17	430	50	1270
18	455	49 1/2	1255
19	485	49	1245
20	510	48 1/2	1230
21	535	47 1/2	1205
22	560	47	1195
23	585	46 1/2	1180
24	610	46	1170

(3) Forward and Parallel Approach. If both a forward and parallel approach are possible, operable parts of controls shall be placed within at least one of the reach ranges in paragraphs (1) or (2) of this section.

(4) Bins. Where bins are provided for envelopes, waste paper, or other purposes, at least one of each type provided shall comply with the applicable reach ranges in paragraph (1), (2), or (3) of this section.

EXCEPTION: Where a function can be performed in a substantially equivalent manner by using an alternate control, only one of the controls needed to perform that function is required to comply with this section. If the controls are identified by tactile markings, such markings shall be provided on both controls.

4.34.4 Controls. Controls for user activation shall comply with 4.27.4.

4.34.5 Equipment for Persons with Vision Impairments. Instructions and all information for use shall be made accessible to and independently usable by persons with vision impairments.

(20) Where automated teller machines (ATMs) are provided, each ATM shall comply with the requirements of 4.34 except where two or more are provided at a location, then only one must comply.

EXCEPTION: Drive-up-only automated teller machines are not required to comply with 4.27.2, 4.27.3 and 4.34.3.

4.2.4* Clear Floor or Ground Space for Wheelchairs.

4.2.4.1 Size and Approach. The minimum clear floor or ground space required to accommodate a single, stationary wheelchair and occupant is 30 inches by 48 inches (760 mm by 1220 mm) (see Fig. 4a). The minimum clear floor or ground space for wheelchairs may be positioned for forward or parallel approach to an object (see Fig. 4b and 4c). Clear floor or ground space for wheelchairs may be part of the knee space required under some objects.

4.2.4.2 Relationship of Maneuvering Clearance to Wheelchair Spaces. One full unobstructed side of the clear floor or ground space for a wheelchair shall adjoin or overlap an accessible route or adjoin another wheelchair clear floor space. If a clear floor space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearances shall be provided as shown in Fig. 4(d) and 4(e).

4.2.4.3 Surfaces for Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5.

4.2.5* Forward Reach. If the clear floor space only allows forward approach to an object, the maximum high forward reach allowed shall be 48 inches (1220 mm) (see Fig. 5(a)). The minimum low forward reach is 15 inches (380 mm). If the high forward reach is over an obstruction, reach and clearances shall be as shown in Fig. 5(b).

4.2.6* Side Reach. If the clear floor space allows parallel approach by a person in a wheelchair, the maximum high side reach allowed shall be 54 inches (1370 mm) and the low side reach shall be no less than 9 inches (230 mm) above the floor (Fig. 6(a) and 6(b)). If the side reach is over an obstruction, the reach and clearances shall be as shown in Fig 6(c).

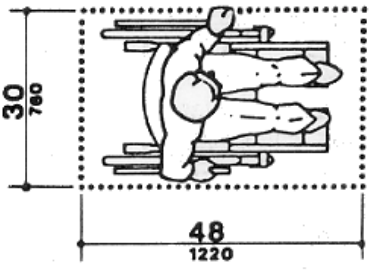


Figure 4a. Clear floor space.

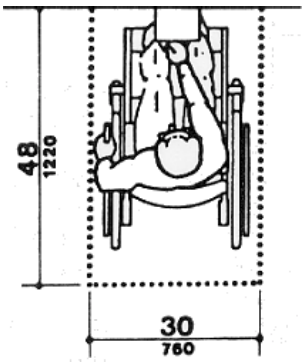


Figure 4b. Forward approach.

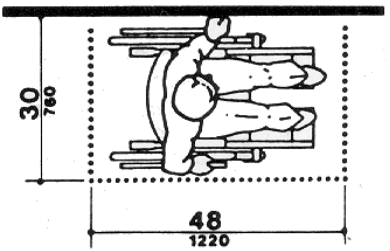
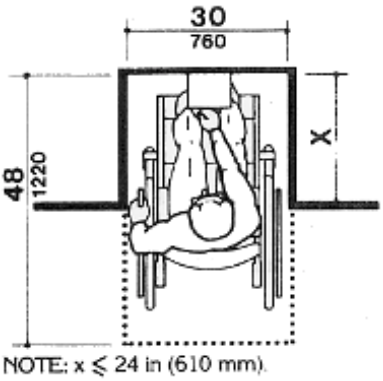


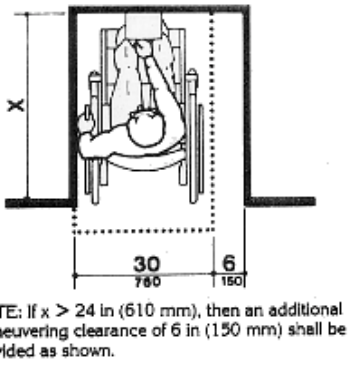
Figure 4c. Parallel approach.

Figures 4d. Clear floor space in alcoves.

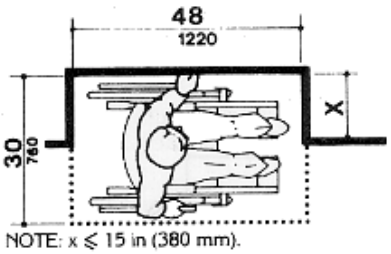


For a front approach, where the depth of the alcove is equal to or less than 24 inches (610 mm), the required clear floor space is 30 inches by 48 inches (760 mm by 1220 mm).

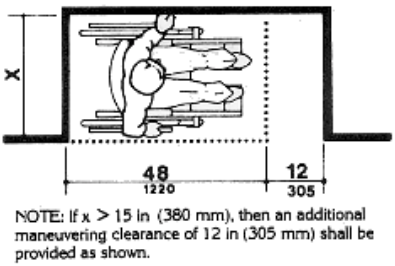
Figures 4e. Clear floor space in alcove.



For a front approach, if the depth of the alcove is greater than 24 inches (610 mm), then in addition to the 30-inch (760 mm) width, a maneuvering clearance of 6 inches (150 mm) in width is required.



For a side approach, where the depth of the alcove is equal to or less than 15 inches (380 mm), the required clear floor space is 30 inches by 48 inches (760 mm by 1220 mm).



For a side approach, where the depth of the alcove is greater than 15 inches (380 mm), then in addition to the 48-inch (1220 mm) length, an additional maneuvering clearance of 12 inches (350 mm) is required.

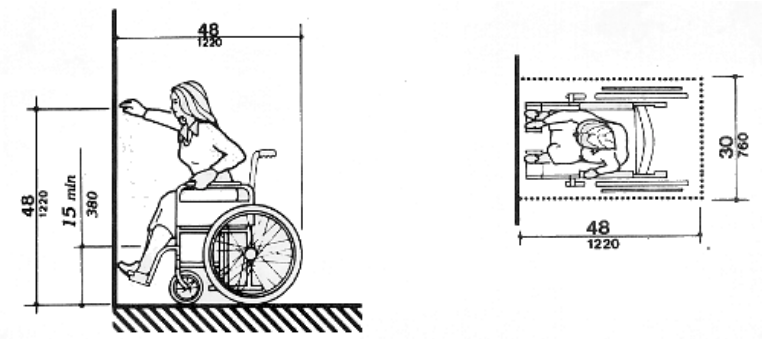
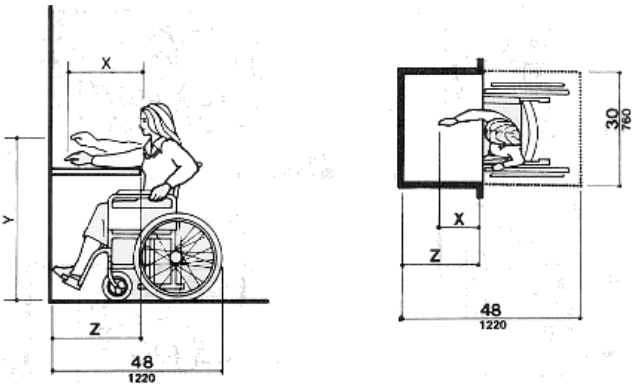


Figure 5a. Forward reach, unobstructed.



NOTE: x shall be ⩽ 25 in (635 mm); z shall be ⩾ x. When x < 20 in (510 mm), then y shall be 48 in (1220 mm) maximum. When x is 20 to 25 in (510 to 635 mm), then y shall be 44 in (1120 mm) maximum.

Figure 5b. Forward reach, obstructed.

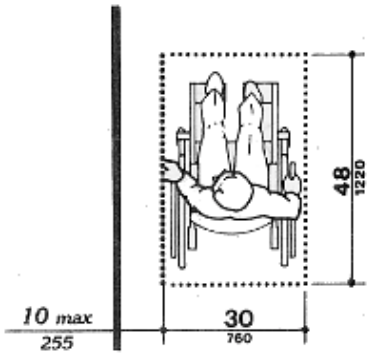


Figure 6a. Parallel approach - side reach.

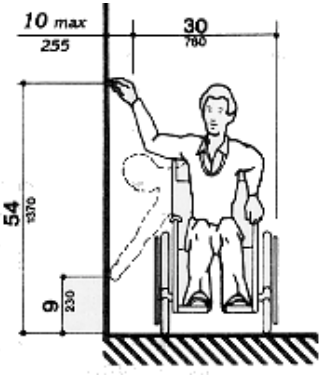


Figure 6b. Parallel approach - high/ low side reach.

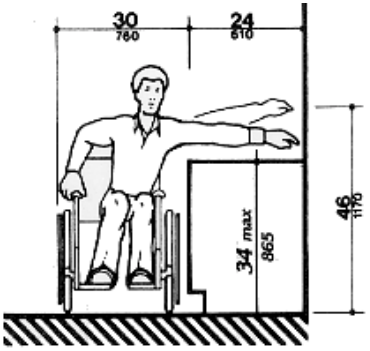


Figure 6c. Side reach, obstructed.

THIS PAGE INTENTIONALLY LEFT BLANK

ATM ENVIRONMENTAL PRECAUTIONS CHECKLIST

When installing an ATM, some general environmental precautions need to be considered. Evaluate the location where the ATM will be installed. To help ensure proper operation of the ATM, ensure the environmental criteria listed in this checklist are met.

TEMPERATURE/HUMIDITY

1. **The ATM needs to be in an environmentally-controlled location, with no extreme fluctuations in temperature or humidity. Generally, these parameters must fall within the following ranges:**

Temperature

- 10-40 Deg. C
- ❑ • 50-104 Deg. F

Relative Humidity

- 20% - 80%
- ❑ • (Non-Condensing)

Refer to the Service Manual for information on ATM physical, electrical, and environmental specifications.

AC POWER REQUIREMENTS

2. **Ensure the following AC power requirements are met:**

Dedicated source. The ATM AC power feed will be a dedicated line, to which no other electrical devices are connected. The ATM power line will be wired for a single "duplex"-style outlet and connected directly to the AC service panel.

Isolated Ground. An equipment grounding conductor that is insulated from the conduit or raceway and all other grounding points throughout its entire length. The only points of electrical connection will be at the duplex outlet and service panel ends of the line.

DEDICATED TELEPHONE

3. **Ensure the following telephone-line requirements are met:**

Dedicated line. The telephone line servicing the ATM will not be a "party" line or any other shared type connection.

Proximity to Interference Sources. The telephone line must not be in close proximity to "noisy" devices that could induce interference into the ATM communications channel. See the next section for addtional information on "interference sources."

RF INTERFERENCE

4. **Ensure there are no devices near the terminal that may cause RF interference, such as:**

❑ TVs ❑ Coolers
❑ Security Devices
❑ Neon Signs
❑ Devices with Compressors

CABINET INSTALLATION
STANDARD ANCHORS

PARTS SUPPLIED			
4	1/2" x 4 1/4 " Sleeve-Type Anchor Bolts	4	1/2" Flat Washers for Anchor Bolts
8	1/2" Nuts for Anchor Bolts	1	Drilling Template
4	Leveling Feet (for Optional Use with Business Hours Service Cabinets).		
REQUIRED TOOLS/EQUIPMENT			
1	Torque Wrench, Adjustable to at least 60 Foot-Pounds (or 3/4" Ratchet Wrench).		
1	Center Punch (or equivalent) for marking drilling points.		
1	3/4" Socket (For Tightening Anchor Bolts)	1	Hammer
1	Large Flat Screwdriver	1	Bubble Level
1	3/4" Heavy-Duty (Professional-Grade) Electric Hammer Drill.	1	1/4" and 1/2" Carbide-tipped Masonry Drill Bits - at least 6" long.
1	Safety Goggles	1	Ear Plugs or Ear Muffs (hearing protection)
1	Back-Support Belt	1	Portable Vacuum Cleaner

UNPACK CASH DISPENSER

****IMPORTANT****

The RL5000 is designed for indoor installation only!

1. Carefully inspect the unit for any shipping damage and report any damage immediately to the shipping company. Refer to the warranty information in the User or Service manual (as applicable) for information about reporting shipping damage.

2. Remove the unit from the carton by cutting the straps and removing the top of the box.

3. Remove the loose packing material from inside of the box.

4. Remove the silver key from the white plastic bag attached to the ATM wrapping.

UL LEVEL 1 CABINET SAFETY

Level 1 cabinets are considerably heavier than Business Hours cabinets! Exercise extreme caution when moving Level 1 cabinets! At least two persons should work together to move the cabinet into position for mounting!

TOOL USE/SAFETY

Observe ALL safety precautions for operating hand and power tools! Wear eye and ear protection while operating the electric drill! **USE A BACK-SUPPORT BELT WHEN LIFTING AND MOVING THE ATM!**

SELECTING THE INSTALLATION LOCATION

Choosing the right location for your ATM is very important. Security concerns suggest a location that is away from any door or external access point. Ideally, the terminal should be mounted as close to a back wall as possible. For marketing reasons, however, it may be desirable to locate the terminal near the front where your customers can easily locate it. Wherever you decide to locate the terminal, be sure to follow the recommended procedures for both mounting the terminal and for removing cash when the unit will be unattended.

5. Stand the unit up and walk it out of the shipping carton.

6. Remove the wrapping from the ATM.

7. Use the silver key to unlock both the control panel and the fascia door (which conceals the locking mechanism) on the front of the cabinet. Open the fascia door.

8. Turn the handle on the locking mechanism to open the front enclosure door. If the door is locked see the sidebar on this page for help in unlocking the electronic lock.

9. Remove the accessory kit from inside the bottom enclosure; open and inspect the contents. Check the contents against the enclosed packing list. Report any missing parts to Triton immediately.

POWER OUTLET ACCESSIBILITY

Whether you are installing a new outlet or plan to use an existing outlet to supply power to the ATM, make sure the following requirements are met:

1. The outlet is located near the cabinet.

2. The outlet is easily accessible.

3. Access to the outlet will not be blocked once the cabinet is installed!

UNLOCKING ELECTRONIC LOCKS

ELECTRONIC LOCK. Upon arrival, the combination of the lock should already be preset to 1-2-3-4-5-6. To unlock, enter the preset combination and check for proper operation. After each keypress, the lock will beep. After the final digit has been entered, the lock will beep twice and the open period will begin. When a valid combination has been entered, the operator will have approximately 3 seconds to open the lock. To open the lock, turn the dial clockwise. After the lock is opened, the door latch may be turned and the safe opened.

MARK/DRILL MOUNTING HOLES

CONCRETE STRENGTH

The floor at the installation location should consist of commercial-grade concrete measuring at least **2000 psi** in compression strength. ***The full effectiveness of the mounting anchors depends upon meeting this specification!*** Check with the contractor/builder or owner of the installation to verify that this requirement can be satisfied.

Mark the location of the cabinet mounting holes on the concrete floor. This can be accomplished in two ways, as described below:

1a. Preferred Method. Place the included mounting hole drilling template on the floor in the designated location and tape it into position. ***Be certain there are no physical obstructions that could prevent the cabinet from being installed in this location or otherwise limit access to the unit!***

Use a center punch tool (or equivalent) to mark the center of each mounting hole as indicated on the template. Remove the template.

1b. Alternative Method (Business Hours Units). Move the ATM to the location where it will be installed.

Open the cabinet door at least 90° degrees to improve access. Locate the four anchor-bolt holes (cutouts) in the bottom of the cabinet. Use a felt-tip pen or other marker to carefully mark the center of each of these four holes on the floor; these marks will serve as guides for the anchor bolt holes that will be drilled in the next step. Move the ATM aside to provide clear access to the mounting hole marks.

2. Use a 1/4" diameter carbide-tipped masonry bit to drill four pilot holes at the drilling points marked in the previous step. Drill the pilot holes approximately 1/2" deep into the floor. These holes will help guide the 1/2" masonry bit that will be used to drill the anchor-bolt holes in the next step.

3. Use a 1/2" diameter carbide-tipped masonry bit to drill four holes at least 2 3/4" deep into the floor. Be sure to take into account the depth of any floor covering, such as tile or vinyl when gauging the depth of the anchor holes. *Make sure the holes are drilled at least 2 3/4" into the concrete floor.*

4. Use a portable vacuum cleaner to remove any dust or debris that may have fallen into the holes during the drilling process.

BOLT CABINET TO FLOOR

LEVEL FLOORING REQUIREMENT

It is very important that the ATM cabinet be located on flat, level flooring! If the floor is not flat and level the cabinet bottom and/or walls may become distorted when the mounting bolts are tightened down! This could prevent the security vault door from closing!

1. Move the ATM into position for mounting by aligning the base over the four holes drilled in the previous procedure.

2. Place an anchor bolt through the cabinet base and into one of the mounting holes. Use a ball peen hammer to tap the bolt completely into the hole.

   IMPORTANT: If the anchor bolt "falls" into the hole without needing to be tapped in, the hole is too large! The mounting-hole pattern will have to be moved and redrilled using smaller holes as necessary to achieve a snug fit.

3. Place a flat washer on the anchor bolt followed by a 3/8" nut.

4. Repeat Steps 2 and 3 for the remaining anchor bolts.

LEVELING FEET

The leveling feet included in the cabinet installation kit are for optional use with the **Business Hours Service** cabinet.

If leveling feet are used, the cabinet bottom may experience warping or bending when the mounting bolts are tightened down! This may prevent the cabinet door from closing cleanly!

Follow these steps to install and adjust the leveling feet:

1. Screw the leveling feet **completely** into the four threaded bosses in the base of the cabinet. If necessary, lay the cabinet on its side to access the bosses.

2. Once the cabinet is in the final mounting position use a screwdriver to adjust the leveling bolts. ***DO NOT extend the feet any further than necessary to level the cabinet!*** Use a bubble level, if available, to verify the cabinet is level.

3. After the mounting bolts have been tightened, ensure the cabinet door can close without binding. ***It may be necessary to adjust the tightening of the mounting bolts to enable the door to close without binding.***

5. Ensure the cabinet is as level as possible given the floor conditions. Use a bubble level to verify this. If a bubble-level is not available, the cabinet can be "rocked" gently from front-to-back and side-to-side to check the need for leveling.

6. Use a torque wrench and 3/8" socket to tighten each nut to a torque setting of ***60 foot-pounds (required to establish the maximum pull-out strength of the anchors)***. If a torque wrench is not available, use a ratchet wrench and 3/8" socket to tighten the nuts ***three full turns beyond hand tight***.

7. Once all anchor bolts are tightened, close the door of the cabinet to ensure that the door opens and closes without binding.

If the door does bind, it may be necessary to relocate the cabinet to an area with a flat level floor!

If a Business Hours cabinet was installed with leveling feet, the feet may have caused the warping of the cabinet bottom under pressure of the mounting bolts.

8. Once the nuts are tightened as specified in Step 6 and the door operates without binding as verified in Step 7, ***install a second nut on each bolt and tighten down firmly***.

9. If the dispenser tray was removed to facilitate cabinet installation, replace it at this time.

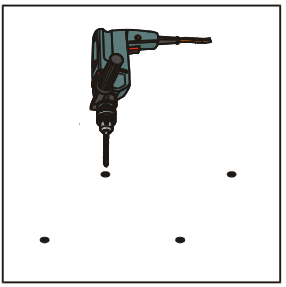


Fig. 1. Drilling mounting holes.

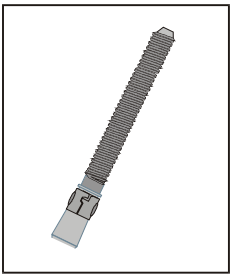


Fig. 2. "Sleeve"-type anchor bolt.

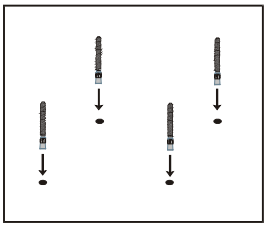


Fig. 3. Place anchor bolts in mounting holes.

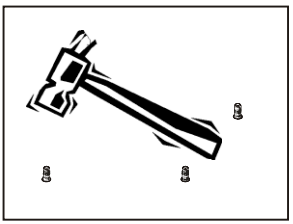


Fig. 4. Tap anchor bolts into mounting holes.

10. The physical installation of the ATM cabinet is complete.

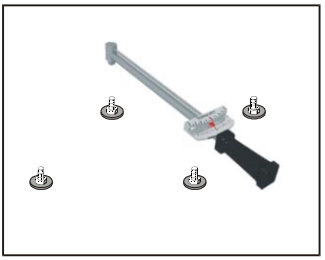


Fig. 5. Tighten bolts with torque wrench.

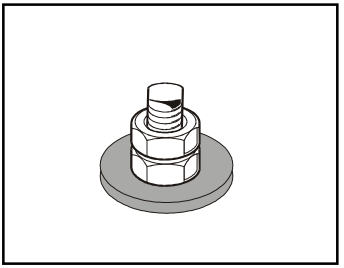


Fig. 6. Second nut installed.

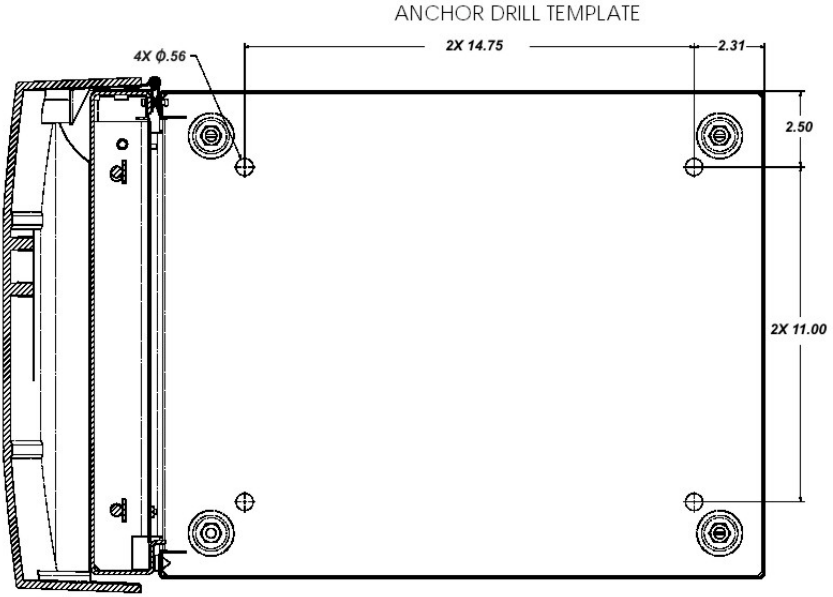


Fig. 7. Mounting hole drill template example (Not to scale).

THIS PAGE INTENTIONALLY LEFT BLANK

CABINET INSTALLATION
CHEMICAL ANCHORS

****IMPORTANT****

The following procedure applies to the **OPTIONAL** Chemical anchor install kit (06200-00060). (Must Purchase)

PARTS SUPPLIED			
4	Chemical Anchor capsules (02316-00002)	4	Threaded chisel-point rods, M12 x 1.75 (02302-00006)
8	Hex nuts, M12 x 1.75 (02301-00015)	4	Washers (02309-00014)
REQUIRED TOOLS/EQUIPMENT			
1	Adjustable Crescent Wrench, or Ratchet Wrench with 18 mm (3/4-inch) socket		
1	Center Punch (for marking drilling points)	1	Wire Brush (for cleaning mounting holes)
1	Large Flat Screwdriver	1	Bubble Level
1	Heavy-Duty (Professional-Grade) Electric Hammer Drill.	1	6 mm (1/4-inch) and 15 mm (9/16-inch) Carbide-tipped Masonry Drill Bits - at least 15 cm (6-inches) long
1	Safety Goggles	1	Ear Plugs or Ear Muffs (hearing protection)
1	Back-Support Belt	1	Portable Vacuum Cleaner or Blower (to remove dust and debris from mounting holes)

UNPACK CASH DISPENSER

****IMPORTANT****

The RL5000 is designed for indoor installation only!

1. Carefully inspect the unit for any shipping damage and report any damage immediately to the shipping company. Refer to the warranty information in the User or Service manual (as applicable) for information about reporting shipping damage.

2. Remove the unit from the carton by cutting the straps and removing the top of the box.

UL LEVEL 1 CABINET SAFETY

Level 1 cabinets are considerably heavier than Business Hours cabinets! Exercise extreme caution when moving Level 1 cabinets! At least two persons should work together to move the cabinet into position for mounting!

TOOL USE/SAFETY

Observe ALL safety precautions for operating hand and power tools! Wear eye and ear protection while operating the electric drill! **USE A BACK-SUPPORT BELT WHEN LIFTING AND MOVING THE ATM!**

SELECTING THE INSTALLATION LOCATION

Choosing the right location for your ATM is very important. Security concerns suggest a location that is away from any door or external access point. Ideally, the terminal should be mounted as close to a back wall as possible. For marketing reasons, however, it may be desirable to locate the terminal near the front where your customers can easily locate it. Wherever you decide to locate the terminal, be sure to follow the recommended procedures for both mounting the terminal and for removing cash when the unit will be unattended.

3. Remove the loose packing material from inside of the box.

4. Remove the silver key from the white plastic bag attached to the ATM wrapping.

5. Stand the unit up and walk it out of the shipping carton.

6. Remove the wrapping from the ATM.

7. Use the silver-colored key to unlock both the control panel and the fascia door (which conceals the locking mechanism) on the front of the cabinet. Open the fascia door.

8. Turn the handle on the locking mechanism to open the front enclosure door. If the door is locked, see the sidebar on this page for help in unlocking the electronic lock.

9. Remove the accessory kit from inside the bottom enclosure; open and inspect the contents. Check the contents against the enclosed packing list. Report any missing parts to Triton immediately.

UNLOCKING ELECTRONIC LOCKS

ELECTRONIC LOCK. Upon arrival, the combination of the lock should already be preset to 1-2-3-4-5-6. To unlock, enter the preset combination and check for proper operation. After each keypress, the lock will beep. After the final digit has been entered, the lock will beep twice and the open period will begin. When a valid combination has been entered, the operator will have approximately 3 seconds to open the lock. To open the lock, turn the dial clockwise. After the lock is opened, the door latch may be turned and the safe opened.

MARK/DRILL MOUNTING HOLES

Mark the location of the cabinet mounting holes on the concrete floor. This can be accomplished in two ways as described below:

1a. Preferred Method. Place the included mounting hole drilling template on the floor in the designated location and tape it into position. ***Be certain there are no physical obstructions that could prevent the cabinet from being installed in this location or otherwise limit access to the unit!***

Use a center punch tool (or equivalent) to mark the center of each mounting hole as indicated on the template. Remove the template.

1b. Alternative Method (Business Hours Units). Move the ATM to the location where it will be installed.

Open the cabinet door at least 90° degrees to improve access. Locate the four anchor-bolt holes (cutouts) in the bottom of the cabinet. Use a felt-tip pen or other marker to carefully mark the center of each of these four holes on the floor; these marks will serve as guides for the anchor bolt holes that will be drilled in the next step.

Move the ATM aside, to provide clear access to the mounting hole marks.

CHEMICAL ANCHOR SYSTEM

The chemical anchor installation system used in this procedure bonds threaded anchor-rod inserts to the base material (for ATM applications this is typically a concrete foundation). Unlike traditional expansion-bolt anchoring systems, chemical anchoring is accomplished without exerting expansion forces against the base material. As a result, the chemical anchoring system proves ideal for anchoring in a wider selection of materials from brick to granite.

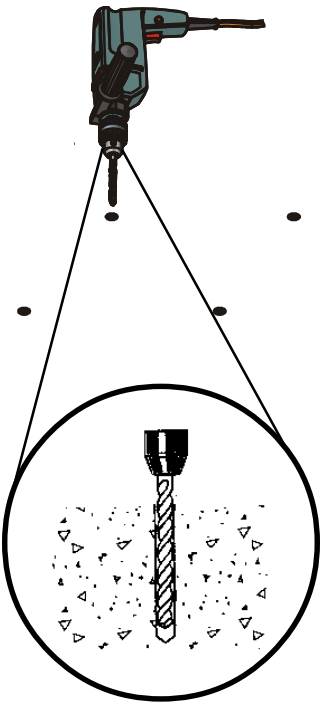


Fig. 1. Drilling mounting holes.

2. Use a **6 mm** (1/4") diameter carbide-tipped masonry bit to drill four pilot holes at the drilling points marked in the previous step. Drill the pilot holes approximately **12 mm** (1/2") deep into the floor. These holes will help guide the 1/2" masonry bit that will be used to drill the anchor-bolt holes in the next step.

3. Use a **15 mm** (9/16") diameter carbide-tipped masonry bit to drill four holes at least **115 mm** (4 1/2") deep into the floor. Be sure to take into account the depth of any floor covering, such as tile or vinyl when gauging the depth of the anchor holes. *Make sure the holes are drilled at least **115 mm** (4 1/2") into the concrete floor.*

4. Use a blower or portable vacuum cleaner to remove any dust or debris that may have fallen into the holes during the drilling process. Brush the hole with the wire brush to loosen any additional debris, then blow or vacuum again. ***Holes may be dry or damp, but must be free of standing water or frost!***

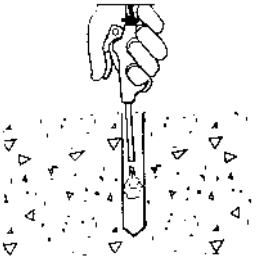


Fig. 2. Blow out dust/debris.

Fig. 3. Remove dust with wire brush.

INSTALL CHEMICAL ANCHORS

1. Move the ATM into position for mounting by aligning the base over the four holes drilled in the previous procedure.

2. Begin by inserting a chemical stud capsule into one of the mounting holes. Either end of the capsule may be inserted first.

3. Place a washer and a nut (in that order) onto a chisel point rod. Thread the nut onto the rod leaving **3 to 4** threads exposed.

4. Thread the rod coupler onto the threaded rod until it is tight against the nut. The threaded rod used should be free of dirt, grease, oil or other foreign material.

5. Select the drive unit, insert it into a rotary hammer drill and engage the coupling to be used.

6. Insert the chisel point of the rod into the hole to break the glass capsule. Spin it into the capsule at a speed of **250 to 500 RPM** until it is fully embedded. ***IMPORTANT! Turn the rotary hammer drill OFF IMMEDIATELY when the rod is fully embedded!***

7. Pull the driver out of the coupling while holding the rod. Hold the hex nut with a wrench to unthread the coupler.

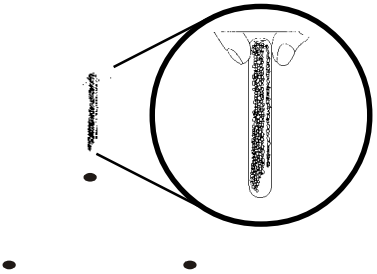


Fig. 4. Insert chemical stud capsule in mounting hole.

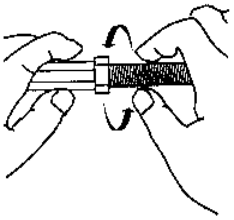


Fig. 5. Prepare chisel point anchor rod. Add washer and nut.

Fig. 6. Drive anchor rod into capsule using hammer drill.

8. Repeat steps 1-7 for each of the remaining mounting holes.

9. Allow the adhesive to cure for the specified time (see chart below) prior to applying any load to the anchors. During the winter, the hole temperature may be different than the room temperature! The hole temperature should be measured to determine the curing time required. ***DO NOT disturb or load the anchors until they are fully cured!***

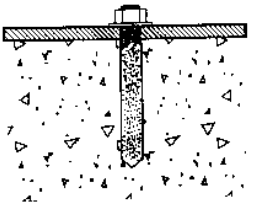


Fig. 7. Allow seated anchor to cure.

Base Material Temperature*	Setting Time
68º F / 20º C and over	20 minutes
50º F / 10º C to 68º F / 20º C	30 minutes
32º F / 0º C to 50º F / 10º C	1 hour
23º F / -5º C to 32º F / 0º C	5 hours
14º F / -10º C to 23º F / -5º C	10 hours

BOLT CASH DISPENSER TO FLOOR

1. Ensure the cabinet is as level as possible given the floor conditions. Use a bubble level to verify this. If a bubble-level is not available, the cabinet can be "rocked" gently from front-to-back and side-to-side to check the need for leveling. Use a screwdriver to adjust the leveling bolts inside the unit to level the cabinet. DO NOT extend the feet any further than necessary to level the cabinet.

2. Use an adjustable crescent or ratchet wrench with 18 mm (3/4") socket to tighten the nuts down. ***No minimum torque setting for the nuts is required.*** Simply ensure the nuts are tightened down firmly enough to secure the ATM cabinet to the anchors. Tightening the nuts just beyond hand tight should prove adequate.

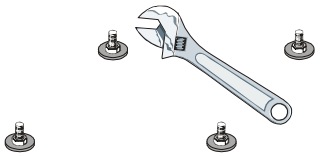


Fig. 8. Tighten nuts with wrench.

3. Once all anchors are tightened, close the door of the cabinet to ensure that the door does not bind. If the door does bind, loosen the anchor nuts slightly and retighten them in the following sequence:

a. Back left
c. Left front.
b. Right front
d. Back right

4. Close the door and check for proper operation. The leveling feet may need to be adjusted to re-square the cabinet after the anchor nuts have been retightened.***If the door continues to bind, it may be necessary to relocate the cabinet to an area with a flat level floor!***

5. Once the cabinet is square (level) and the door operates without binding, install a second nut on each bolt and tighten down firmly.

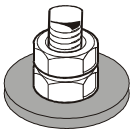


Fig. 9. Add second (jam) nut and tighten.

6. If the dispenser tray was removed to facilitate cabinet installation, replace it at this time.

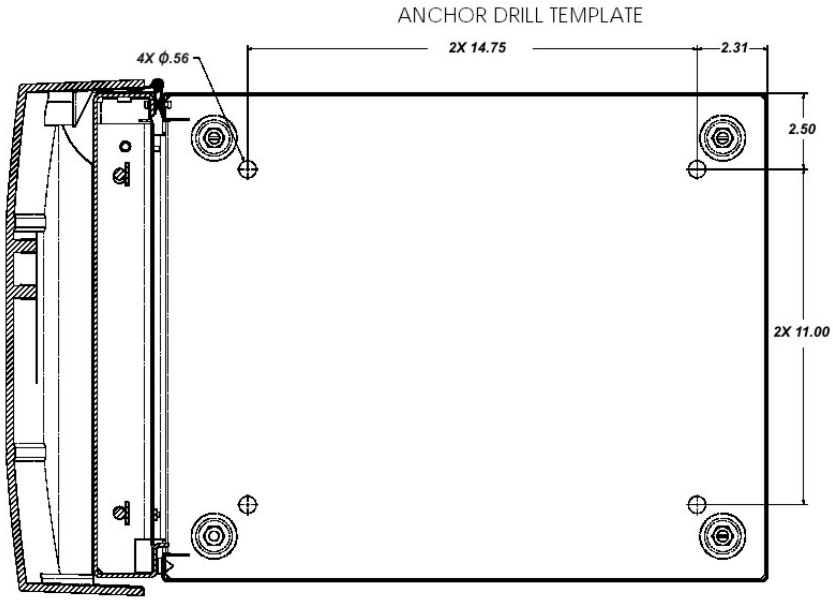


Fig. 10. Mounting hole drill template example (Not to scale).

THIS PAGE INTENTIONALLY LEFT BLANK

POWER AND COMMUNICATION

Connecting AC Power and Telephone Line

IMPORTANT: AC power for the terminal should come from a dedicated source with an isolated ground.

1. Ensure the power and phone cables are routed through the cable clips as shown in Figure 1.

2. Route the AC power cord and the phone cord through either the rear or side access hole (as applicable) in the security cabinet as shown in Figures 2a and 2b.

****WARNING****

This unit may be equipped with more than one power cord. **Disconnect All Power Cords prior to Servicing!** For continued fault protection, follow the correct voltage and current ratings when replacing any fuses.

Figure 1. Ensure power and phone cords are routed through cable clips.

POWER SUPPLY CORD - SPECIFICATIONS

For European applications, the power supply cord must conform to the following specifications:

1. Two-conductor with Physical Earth (PE) ground.

2. IEC 320 molded connector on one end and molded plug on the other end.

3. Certified for country of installation.

4. Rated minimum H05VV-F with minimum 0.75 mm2 (except where specfic countries require 1.0 mm2) conductors.

5. Maximum length: 3 meters.

****IMPORTANT****
The AC socket outlet shall be installed near the equipment and shall be easily accessible.

3. Install the supplied snap bushing into the access hole that carries the power and phone cords. Install the supplied dome plug into the unused access hole.

See Figure 3 for an example that shows the snap bushing on the rear access hole and the dome plug on the side access hole.

4. Plug the AC power plug into the wall outlet.

5. Plug the phone cord into the wall mounted modular phone jack.

****IMPORTANT****
The phone line used for the ATM shall not be shared with any other device!

POWER OUTLET ACCESSIBILITY

Whether you are installing a new outlet, or plan to use an existing outlet to supply power to the ATM, make sure the following requirements are met:

1. The outlet is located near the cabinet.

2. The outlet is easily accessible.

3. Access to the outlet will not be blocked once the cabinet is installed!

Figure 2a. Power and phone cords routed through rear access hole.

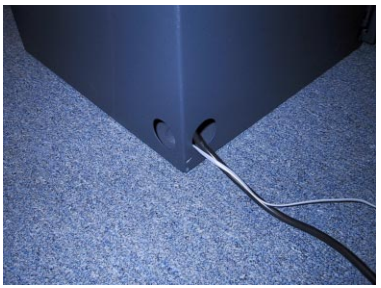


Figure 2b. Power and phone cords routed through side access hole.

Figure 3. Install snap bushing on access hole that carries power and phone cords. Install dome plug on unused access hole.

THIS PAGE INTENTIONALLY LEFT BLANK

TDM-100/150 DISPENSING MECHANISM INSTALLATION

INSTALLING THE TDM-100/150 DISPENSING MECHANISMS

Four, 6-32 x 5/16 screws (02054-00098) are required to attach the dispensing mechanisms to the turntable. The screws are provided in the ATM accessory box.

1. Refer to Figure 1. Unlock and open the control panel. Verify that the power switch is in the OFF (0) position. Close the control panel.

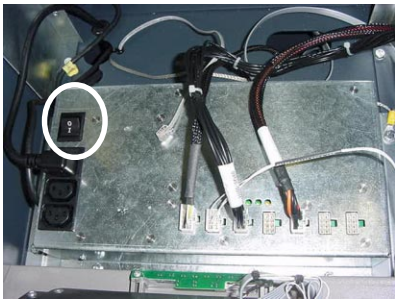


Figure 1. Power switch on left side of power module.

2. Remove the packing material from the ends of the dispenser data and power cables that are hanging inside the cabinet. (Figure 2)

Figure 2. Dispenser data and power cables.

3. Unpack and remove the dispensing mechanism from its shipping container. Remove the currency and reject cassettes from the dispenser.

4. Open the security cabinet and slide the dispenser tray out to its fully extended position. Check the position of the turntable. The turntable must be in the cassette service position to correctly install the dispensing mechanism. The turntable is in the service position when the 90° locking pin hole is to the left as shown in Figure 3. It is in the normal operating position when the hole is to the right as shown in Figure 4.

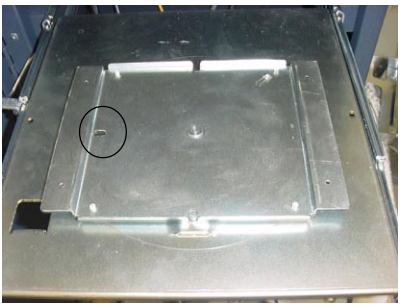


Figure 3. Turntable in cassette service position. Note that plate hole is to the left.

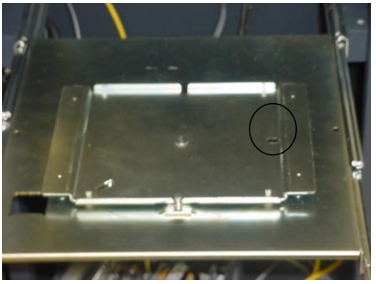


Figure 4. Turntable in operating position. Note that plate hole is to the right.

5. If the turntable is not in the service position, pull down on the turntable locking pin on the underside of the tray as shown in Figure 5 and rotate the turntable clockwise until it is in the service position as shown in Figure 6. Release the locking pin to lock the turntable in the replenishment position.

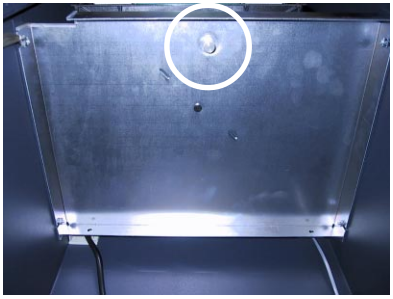


Figure 5. Location of turntable release pin on underside of dispenser tray.

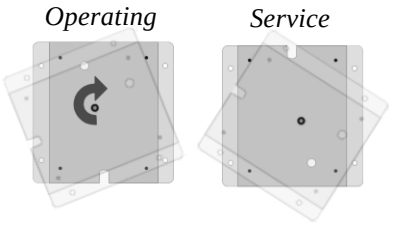


Figure 6. Rotate turntable

6. Refer to Figure 7. Place the dispensing mechanism on the turntable in the cassette service position (with the opening for the currency and reject cassettes facing to the front as you look into the security cabinet).

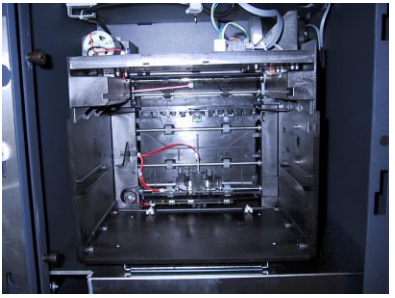


Figure 7. Dispenser on swivel mount in cassette service position.

7. Refer to Figure 8. Align the four holes in the base of the dispensing mechanism with the four holes in the turntable flanged edges. Secure the dispensing mechanism to the turntable with the four, #6-32 x x5/16 screws supplied in the ATM accessory kit.

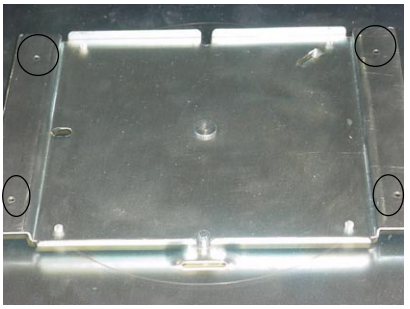


Figure 8. Location of dispenser mounting holes.

8. **(For TDM-100)** Rotate the dispenser 90° counter-clockwise. Route the serial communications cable and power cable through the tie-wrap loop and plug the data cable into jack J11. Plug the DC power connector into jack J12 (Figure 9). **Pull tie wrap to secure cables to dispenser.**

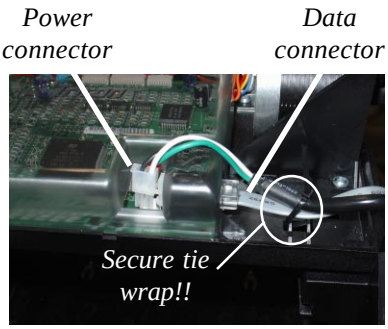


Figure 9. Data / power connections.

8. **(For TDM-150)** Route the serial communications cable and power cable through the tie-wrap loop located on the side of the dispenser shown in Figure 10. Continue to route cables through second tie wrap as shown in Figure 9. Plug the data cable into jack J11. Plug the DC power connector into jack J12 (Figure 9). **Pull both tie wraps to secure cables to dispenser.**

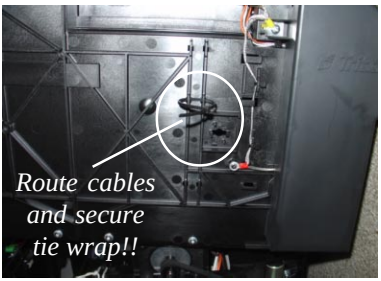


Figure 10. Cable tie wrap location for TDM-150 (side of dispenser).

9. Load the currency cassette using the instructions in Section 4, Cash Replenishment, in the RL5000 User Manual. Place the appropriate denomination label (supplied in the accessory box) on the cassette. Install the currency and reject cassettes and rotate the dispensing mechanism back to the operating position. (cassettes towards rear of cabinet) Slide the dispenser back into the cabinet. Close and lock the security cabinet.

NOTE: You can access the cassettes from the operating position by rotating the turntable either 90° or 180° clockwise.

10. Open the control panel and apply AC power to the ATM by pushing the AC power switch to the ON (1) position.

11. Complete the ATM setup, if necessary, according to the instructions in the RL5000 Configuration manual or applicable Service manual.

12. Follow the remaining steps to perform a Test Dispense:

a. Access the **Management Functions** main menu screen. Refer to the RL5000 User Manual for instructions on accessing the Management Functions main menu.

b. Select **Diagnostics** from the Management Functions screen, then **Dispenser.**

c. Select the **Test Dispense** option. Select Cassette **"A"**. A prompt appears asking how many notes to dispense. (Figure 11) The Test Dispense operation will start.

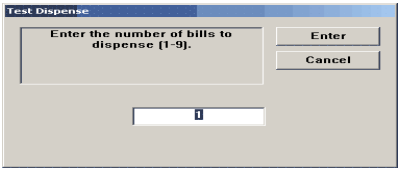


Figure 11. Enter # of notes.

d. The Test Dispense command instructs the dispenser to dispense, *minimum*, one note from the note cassette into the reject cassette. This test exercises the dispenser without sending notes to the exit.

e. After completion of the Test Dispense operation, the following prompt is displayed below - "Test Dispense Completed Successfully - Dispense Count , A: (# of notes)". (Figure 12)

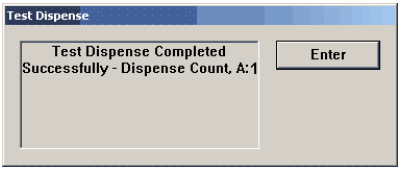


Figure 12. Test dispense prompt.

THIS PAGE INTENTIONALLY LEFT BLANK

SDD DISPENSING MECHANISM INSTALLATION

INSTALLING THE SDD DISPENSING MECHANISM

The SDD dispensing mechanism is shipped inside the cabinet of the RL5000 security cabinet in its own container. Remove it from inside the cabinet before the ATM is bolted to the floor.

1. Refer to Figure 1. Unlock and open the control panel. Verify that the power switch is in the OFF (0) position. Close the control panel.

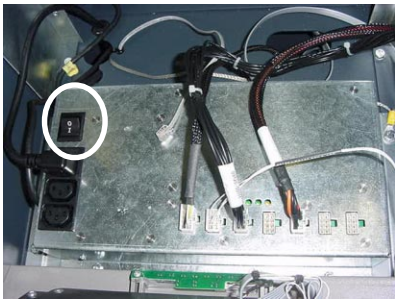


Figure 1. Power switch on left side of power module.

2. Remove the packing material from the ends of the dispenser data and power cables that are hanging inside the cabinet.

3. Unpack and remove the ATM mechanism from its shipping container.

4. Pull the cassette tray out to its fully extended position as shown in Figure 2.

Figure 2. SDD dispenser tray pulled out to extended position.

5. Pick up the dispensing mechanism and place it on the cassette tray. Leave enough room to easily access the back of the dispensing mechanism so it can be connected to the cables coming from the ATM.

6. Refer to Figure 3. Connect cable 9600-0043 to the DB25 connector (PL6) on the rear of the dispenser mechanism. Secure the DB25 cable to the dispenser with two screws attached to the connector. Insert the Molex power plug attached to cable 9600-0013 into the connector marked PL2. This plug is keyed so that it can only be inserted in one direction.

7. Refer to Figure 4. Install the dispensing mechanism by sliding the end with the circuit board into the tray in the cabinet. The mechanism should slide under two tabs in the rear and the front edge slots should align with the two bolts provided with wing nuts. Once the mechanism is fully engaged into the tray, tighten the wing nuts by hand.

8. The ATM is quite tolerant of power line variations primarily because of its built-in surge suppressor. However, AC power for the terminal should come from a dedicated source with an isolated ground. Route the AC power cord and the phone cord out through the hole in the back of the cabinet and install the split ring grommet into the hole.

9. Connect the AC input plug to the wall outlet (See Note, below).

****IMPORTANT****

- Electrical rating of the ATM: 200-250 VAC, 50-60 Hz, 2.60 amps.
- The ATM is designed to work on an IT (Isolated Terra)-type power system having a phase-to-phase voltage not exceeding 250 volts.
- The AC socket-outlet shall be installed near the equipment and shall be easily accessible.

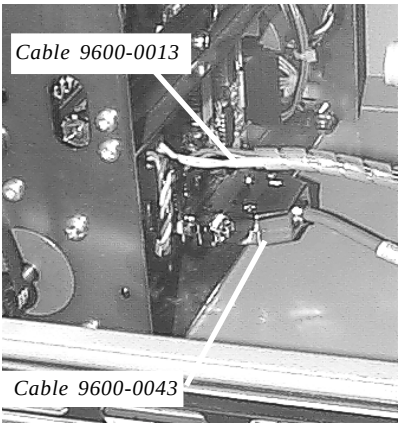


Figure 3. Connections for DC power and communications.

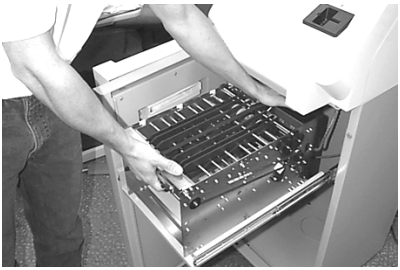


Figure 4. Installing the dispensing mechanism.

POWER SUPPLY CORD - SPECIFICATIONS

For European applications, the power supply cord must conform to the following specifications:

1.) Two-conductor with Protective Earth (PE) ground.
2.) IEC 320 molded connector on one end and molded plug on the other end.
3.) Certified for country of installation.
4.) Rated minimum H05VV-F with minimum 0.75 mm^2 (except where specific countries require 1.0 mm^2) conductors.
5.) Maximum length: 3 meters.

10. Install currency in the cassette and insert into the dispensing mechanism. Refer to Section 4, Cash Replenishment, in the RL5000 User manual for detailed information about handling cassettes.

****CAUTION****

Make sure the cassette is primed and the window below the lock displays green before installing the cassette. Attempting to install an unprimed cassette into a dispensing mechanism may damage the cassette and void its warranty.

11. Open the control panel and apply AC power to the ATM by pushing the AC power switch to the ON (1) position.

12. Complete the ATM setup, if necessary, according to the instructions in the RL5000 Configuration manual or applicable Service manual.

13. Follow the remaining steps to perform a Test Dispense:

a. Access the **Management Functions** main menu screen. Refer to RL5000 User Manual for instructions on accessing the Management Functions main menu.

b. Select **Diagnostics** from the Management Functions screen, then **Dispenser.**

c. Select the **Test Dispense** option. Select cassette **"A"**. A prompt appears asking how many notes to dispense. (Figure 5) The Test Dispense operation will start.

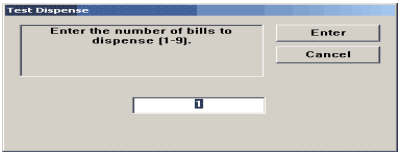


Figure 5. Enter # of notes.

d. The Test Dispense command instructs the dispenser to dispense, ***minimum***, one note from the the note Cassette into the reject tray of the cassette. This test exercises the dispenser without sending notes to the exit.

e. After completion of the Test Dispense operation, the following prompt is displayed - "Test Dispense Completed Successfully - Dispense Count, A: (# of notes)". (Figure 6)

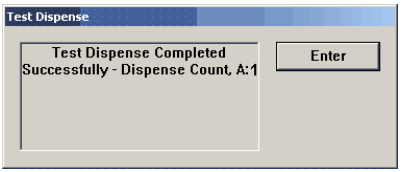


Figure 6. Test dispense prompt.

NMD-50 DISPENSING MECHANISM INSTALLATION

INSTALLING THE NMD-50 DISPENSING MECHANISM

The dispensing mechanism for the RL5000 may be shipped hanging on the side rails inside the security cabinet. Several protective foam blocks have been strategically placed behind and along each side of the dispensing mechanism to reduce any movement during transit. The foam blocks must be removed before the dispenser can be installed. If the dispenser is shipped inside the cabinet, follow the procedures below for removal.

REMOVING THE DISPENSING MECHANISM FROM THE CABINET

1. Refer to Figure 1. Unlock and open the control panel. Verify that the power switch is in the OFF (0) position. Close the control panel.

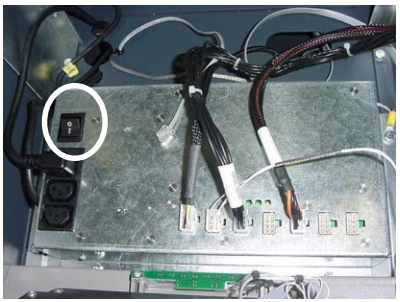


Figure 1. Power switch on left side of power module.

2. Open the cabinet door and remove the cassettes (packed in boxes) and the accessory kit.
3. Remove all of the foam blocks from around the dispensing mechanism.

Figure 2. The NMD-50 dispensing mechanism fully extended on its mounting rails.

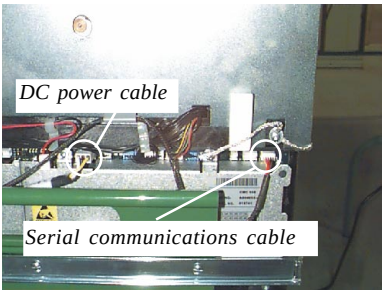


Figure 3. Disconnect the DC power and serial communication connectors from the dispensing mechanism.

Figure 4. Push in on the mechanical stops (on both sides of the dispenser) to allow the dispenser to be pulled off the rails.

4. Refer to Figure 2. Pull the dispensing mechanism out of the cabinet until it reaches the mechanical stops on the mounting rails.

5. Refer to Figure 3. Disconnect the DC power and serial communication connectors from the dispensing mechanism.

6. Refer to Figure 4. Release the mechanical stops (one located on each side of the rail mechanism) by pushing "in" while at the same time pulling the dispensing mechanism out another inch.

7. Grasp the dispensing mechanism by the green handles and pull it out of cabinet until it is clear of the slides.

8. Place the dispenser in a safe location where it will not get accidently damaged.

9.* If installing the cabinet at this time, follow the procedures provided on pages 18 through 24 or pages 26 through 34 of this manual.

Figure 5. Push the rails into the cabinet before installing the dispensing mechanism into the cabinet

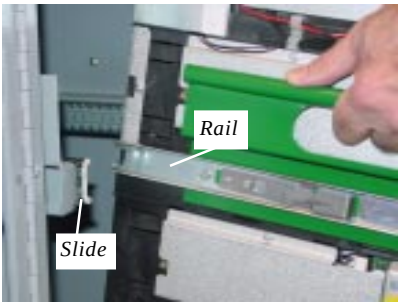


Figure 6. Align the rails on the dispenser with the openings on the slide inside the cabinet.

INSTALLING THE NMD-50 DISPENSING MECHANISM INTO THE CABINET

1. Refer to Figure 5. Push the slides completely into the cabinet. Make sure all cables have been moved out of the way so they will not be damaged while installing the dispensing mechanism in the cabinet.

2. Pick up the dispensing mechanism by the green handles.

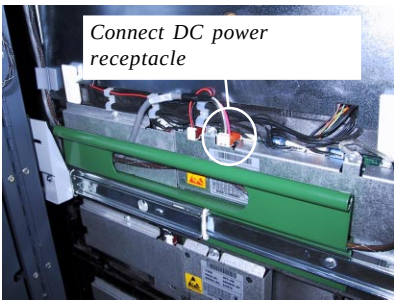


Figure 7. Connect the DC power plug to the receptacle shown above.

3. Refer to Figure 6. Align the rails on the dispenser with the openings on the slide mechanisms on both sides of the cabinet. Once aligned, carefully push the dispensing mechanism on to the slides.

4. Push the dispensing mechanism all the way into the cabinet.

5. Pull the dispensing mechanism out of the cabinet to the mechanical stops.

6. Refer to Figure 7. Connect the DC power cable to the Central Machine Controller (CMC) module on the dispensing mechanism.

7. Refer to Figure 8. Connect the serial communication cable to the CMC module on the dispensing mechanism. Make sure to run the cable through the guides that have been provided on the mechanism cover.

8. Push the dispensing mechanism all the way into the cabinet.

9. Install currency in the cassette and insert and it into the dispensing mechanism. Refer to Section 4, Cash Replenishment, in the RL5000 User Manual for detailed information about handling cassettes.

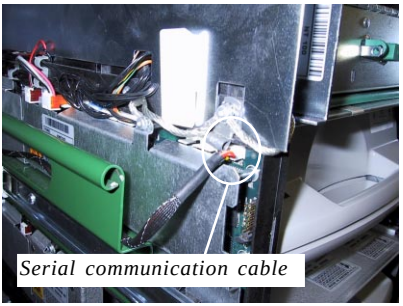


Figure 8. Connect the serial communication cable to the dispensing mechanism as shown. (Forward-most connector)

10. Open the control panel and apply AC power to the ATM by pushing the AC power switch to the ON (1) position.

11. Complete the ATM setup, if necessary, according to the instructions in the RL5000 Configuration manual or applicable Service manual.

13. Follow the remaining steps to perform a Test Dispense:

a. Access the **Managment Functions** main menu screen. Refer to the Model RL5000 User manual for instructions on accessing the Management Functions main menu.

b. Select **Diagnostics** from the Management Functions screen, then **Dispenser.**

c. Select the T**est Dispense** option. Select either individual cassettes that are installed **("A", "B", "C",or "D") or "ALL CASSETTES ".** A prompt appears asking how many notes to dispense. (Figure 9) The Test Dispense operation will start.

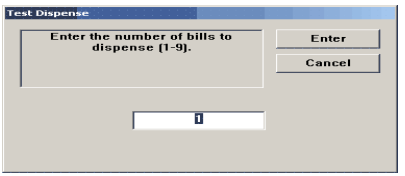


Figure 9. Enter # of notes.

d. The Test Dispense command instructs the dispenser to dispense, ***minimum***, one note from each installed and operational cassette into the reject vault. This test exercises the dispenser without sending notes to the exit.

e. After completion of the Test Dispense, the following prompt is displayed - "Test Dispense Completed Successfully - Dispense Count , A: (# of notes), B: #, etc (Figure 10)

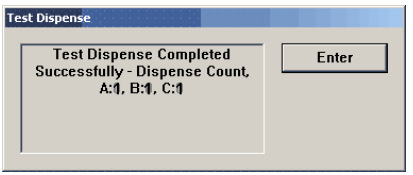


Figure 10. Test dispense prompt..

TCP/IP (ETHERNET)

Ethernet is the most popular LAN technology in use today. The IEEE standard 802.3 defines the rules for configuring an Ethernet network. It is a 10 Mbps, CSMA/CD baseband network that runs over thin coax, thick coax, or twisted pair cable.

The Ethernet option makes your RL5000 ATM LAN (Local Area Network) or WAN (Wide Area Network) capable. The ATM functions that are normally performed via the dial-up telephone system, such as customer transactions and remote monitoring, can now be performed using existing in-house communications network. ATM transaction processing and hardware monitoring functions are performed across a shared network medium. Ethernet is popular because it strikes a good balance between speed, cost and ease of installation. These benefits, combined with wide acceptance in the computer marketplace and the ability to support virtually all popular network protocols, make the Ethernet option an ideal networking solution for your RL5000 ATM.

TCP/IP CABLE INSTALLATION

1. Open the control panel hood and turn the power switch on the power supply to the OFF (0) position.

2. Refer to the section on "Power and Communication". Route the 10Base-T (CAT-5) cable through the cabinet base cable access hole. Secure cable inside vault area and continue up to the control panel access holes.

3. Connect the RJ-45 end of CAT-5 cable to the **TCP/IP** connector located on the **Docking board** assembly as shown in Figures 1a and 1b.

4. Secure cable into existing cable harness runs. Refer to the 5000-series Configuration manual for programming Ethernet options.

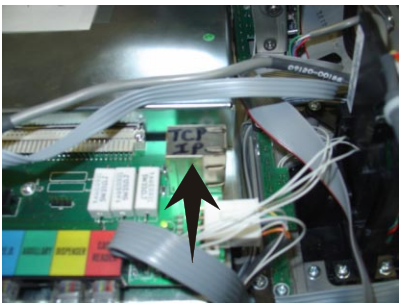


Figure 1a. Side view if TCP/IP connector.

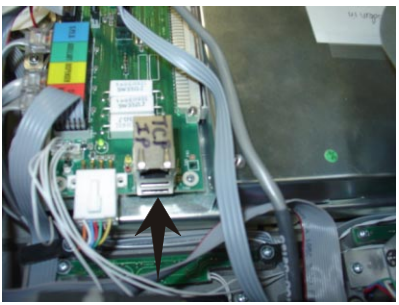


Figure 1b. Rear view of TCP/IP connector.

VSAT (VERY SMALL APERTURE TERMINAL)

VSAT stands for "Very Small Aperture Terminal" and refers to receive/transmit terminals installed at dispersed sites connecting to a central hub via satellite using small diameter antenna dishes (0.6 to 3.8 meter).

VSAT technology represents a cost effective solution for users seeking an independent communications network connecting a large number of geographically dispersed sites. VSAT networks offer value-added satellite-based services capable of supporting the Internet, data, LAN, voice/fax communications, and can provide powerful, dependable private and public network communications solutions.

INSTALLING THE VSAT CABLES (OPTIONAL KIT)

1. Open the control panel hood and turn the power switch on the power supply to the OFF (0) position.

2. Refer to the section on "Power and Communication". Route the Comms cable through the cabinet base cable access hole. Secure cable inside vault area and continue up to the control panel access holes.

3. Connect the RJ-45 connector end of the Comms cable to the **Auxillary port** on the **Docking board** assembly (Figure 1).

4. Connect other end of Comm cable (RJ-45 connector) to the Sub-D adapter (Figure 2).

5. Connect 25-pin connector (Sub-D) to satellite transceiver or interface box, if applicable.

6. Refer to the 5000-series Configuration manual for programming VSAT parameters.

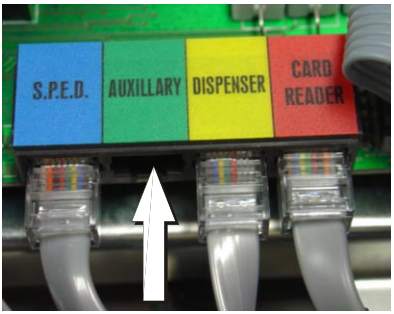


Figure 1. Connect RJ-45 connector to Auxillary port.

Figure 2. Sub-D adapter.

THIS PAGE INTENTIONALLY LEFT BLANK