

## **MODEL FT5000 (X2)**

# Automated Teller Machine SITE PREPARATION / INSTALLATION GUIDE

TDN 07100-00094 Dec 11 2009

#### CORPORATE HEADQUARTERS

21405 B St. Long Beach, MS 39560 Phone: (228) 575-3188 Fax: (228) 575-3200

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#### Introduction

The Triton FT5000 is a self-serviced, weatherized terminal adaptable for any suitable exterior wall or vestibule location. The cabinet design allows flexibility for "Island" installations (wall thickness up to 6-1/4") or existing structures (wall thickness up to 10"). Built-in leveling feet and optional platforms ("plinths") allow the unit to be raised to the desired height of the wall opening. The following section provides the physical dimensions and requirements for installing the FT5000 for your particular site location. To assist you in preparing your site, a check list is provided of various procedures that should be carried out <u>prior</u> to the arrival of the ATM.

#### WHAT'S IN THIS INSTALLATION GUIDE

	<b>SITE COMPLIANCE.</b> States the customers responsibilities for ensuring all relevant regulations, codes, and laws are adhered to for installing ATMs.
	<b>ATM Environmental Precautions Checklist</b> . Describes the general environmental precautions and electrical specifications are considered when installing the ATM. To help ensure proper operation of the ATM, ensure the environmental criteria listed in this checklist are met.
	<b>D</b> IMENSIONS. Describes physical dimensions for the cabinet(s), control panel components, and signage. Physical dimensions.  Service area dimensions.  Customer access dimensions
	Installation. Describes site preparation for exterior wall or vestibule locations. Instructions provide the physical installation of the cabinet and associated hardware items. Optional platforms ("plinths") available in 2 sizes expedite raising the unit, if needed [P/N 06100-00071 (2-3/8") and P/N 06100-00072 (4-3/4")]. Also, cabinets have their own leveling feet for minor adjustments.
	<b>Power and Communication.</b> Shows cable access area, power requirements, and powering-up the unit.
	Installing the Rear Service Panel (RSP). Describes how to install and connect the RSP.
	APPENDIX A. Software License Agreement / Compliance/Emissions statements
DO	APPENDIX B. ATM Installation for Accessibility guidelines.  CUMENTUPDATES:  11 2009 Page 42-43 Added warning to install RSP properly.



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#### SITE COMPLIANCE

This document contains the information necessary for the preparation and installation of an FT5000 Triton ATM. It's important that the site complies with the requirements specified in this document. In addition, electrical wiring and mechanical systems must also comply with all relevant laws and regulations.

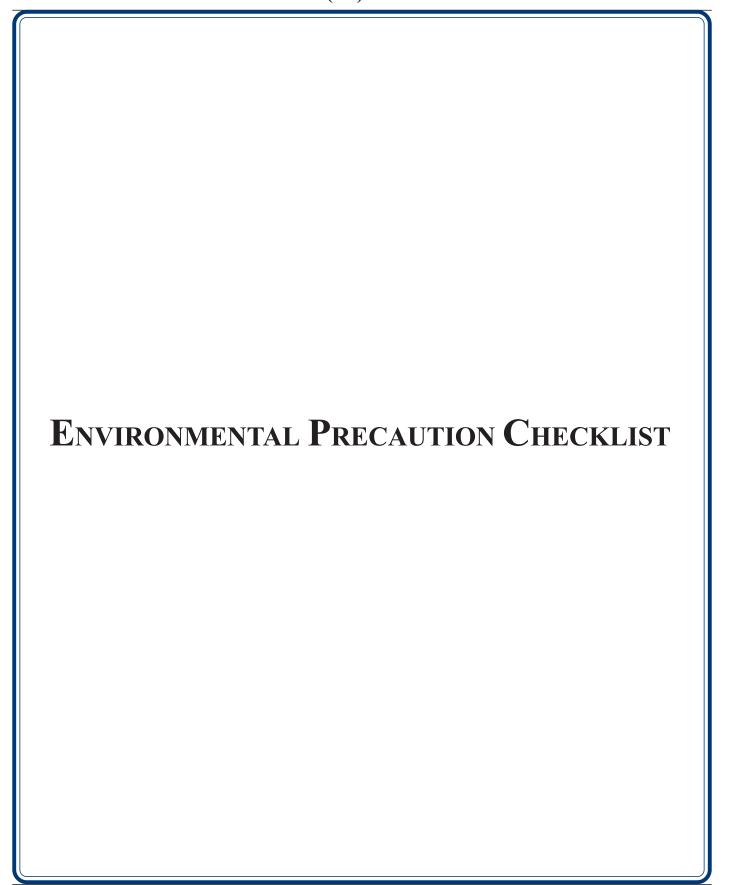
The site must be prepared by the customer or his agent who is fully conversant with the requirements of installing ATM equipment. The responsibility for ensuring that the site is prepared in compliance with this document remains with the customer.

For information and guidance only, a list is provided in general terms of those matters for which the customer is responsible. The list is not intended to be comprehensive and in no way modifies, alters, or limits the responsibility of the customer for all aspects of adequate site preparation.

- 1. Location of the equipment and site preparation.
- 2. Site wiring (power, communication).
- 3. Location of other equipment that may cause electrical, electromagnetic or heat induced interference.
- 4. Make building alterations to meet wiring and other site requirements.
- 5. Install all communication cables, wall jacks, and associated hardware.
- 6. Provide and install necessary power distribution boxes, conduits, and grounds.
- 7. Ensure all applicable codes, regulations, and laws (electrical, building, safety) are adhered to.
- 8. Ensure the environmental requirements of this unit are met.
- 9. Install the unit at a height which meets the ADA/DDA/CSA accessibility regulations for the state/country installed.

SITE PREPARATION CHECKLIST				
Select site and design a floor plan				
Ensure environmental conditions met				
Establish contractor and vendor schedules				
Check communication line requirements				
Plan installation accessory needs				
Check floor plan and make necessary alterations				
Install electrical requirements				
Prepare site for communication needs				
Plan operator training (optional)				
Install communication lines and test				
Ensure installation accessories are available				
Remove any obstructions/hardware that is present in the area in which the ATM equipment is to be installed.				







When installing an ATM, some general environmental and power 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 are met.

#### TEMPERATURE / HUMIDITY

- 1. The ATM will operate over a range of temperatures and humidity. Generally, these parameters must fall within the following ranges:
  - **☐** Temperature (Interior)
  - 10°C to 40°C
  - 50°F to 104°F
  - **□** Relative Humidity
  - 20% to 80%
  - (Non-Condensing)
  - **☐** Temperature (Exterior)
  - -35°C to 50°C
  - -30°F to 122°F
  - **□** Relative Humidity
  - 20% to 80%

#### **AC POWER REQUIREMENTS**

2. Ensure the following AC power requirements are met:

#### Current (Max)

- 5.05A @ 115 VRMS at 60 Hz
- 2.01A @ 230 VRMS at 50 Hz

#### Voltage

- 90 136VRMS @ 50/60 Hz
- 198 257VRMS @ 50/60 Hz

#### **Power Consumption (Idle)**

- 2.0A @ 115 VAC at 60 Hz
- 1.0A @ 230 VAC at 50 Hz

#### **Power Consumption (Max Load)**

- 606 Watts @ 120VAC
- 482 Watts @ 240VAC

#### \* IMPORTANT \*

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

**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. Thetelephone line must not be in close proximity to "noisy" devices that could induce interference into the ATM communications channel. See the next section for additional information on "interference sources."

#### RF Interference

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

☐ TVs
-------

- Coolers
- ☐ Security devices
- ☐ Neon signs
- Devices with compressors





## **D**IMENSIONS

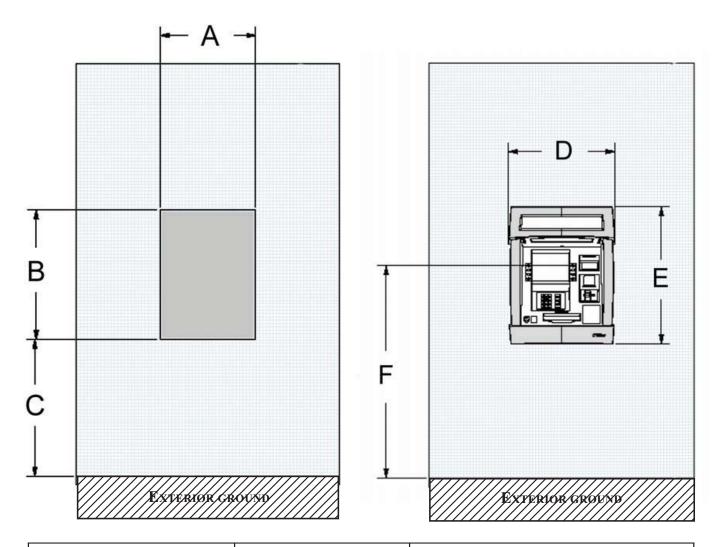
Dimensions listed comply with US Federal ADA Guidelines. For USA installations, check for additional guidance. For non-USA installations, check regulations relating to the country of install.

#### Note:

**Dimensions shown in inches and [millimeters]** 



### WALL OPENING / TRIM DIMENSIONS



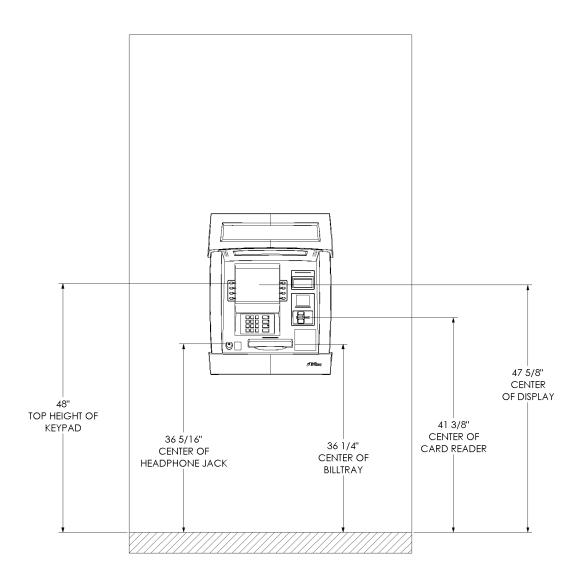
* Wall Openi	ng Dimensions	Facia Trim Dimensions		n Dimensions ** Height from Exterior Ground	
(A) Width	(B) Height	(D) Width	(E) Height	(C) ADA Compliance	(C) DDA Compliance
21 - 1/4" [540 mm]	29" [737 mm]	24 - 1/16" [613 mm]	31" [787 mm]	31 - 1/8" [790 mm]	28 - 1/8" [714 mm]

<sup>\*</sup> Actual tube dimensionsof FT5000 - allow for slight increase in hole size not to exceed facia trim dimensions.



<sup>\*\*</sup> Measured to tube bottom. These dimensions are based on the highest reach item being 48" (ADA) or 45" (DDA) from the exterior ground (Figure F). Dimensions are applicable if interior floor and exterior ground are the same height AND the unit is elevated with the optional 4-3/4" [122mm] plinth.

#### **CUSTOMER ACCESS DIMENSIONS**

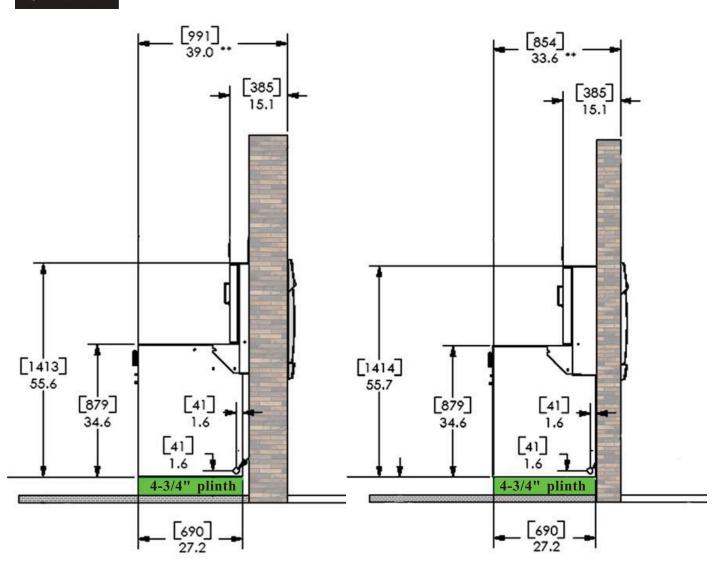


Heights to Main Control Panel Items					
Top Ht. of Function Keypad	Center of Card Reader	Center of Display	Center of Bill Tray	Center of Headphone Jack	
48" (1220 mm)	41 - 3/8" (1051 mm)	47 - 5/8" (1210 mm)	36 - 1/4" (921 mm)	36 - 5/16" (922 mm)	



## PHYSICAL DIMENSIONS BUSINESS HOURS CABINET

SIDE VIEW



STANDARD (LONG) CONFIGURATION

ISLAND (SHORT) CONFIGURATION

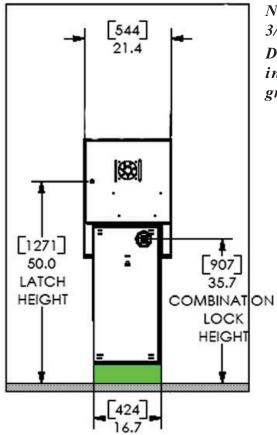
Note: Terminal shown with 4 - 3/4" plinth utilized.

Dimensions are accurate if the inside floor and exterior ground are the same level.



## PHYSICAL DIMENSIONS BUSINESS HOURS CABINET

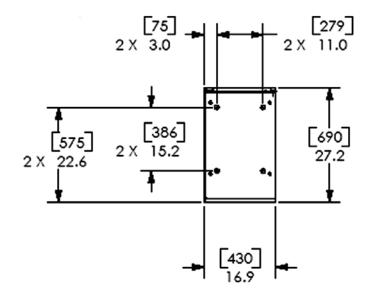
REAR VIEW



Note: Terminal shown with 4 - 3/4" plinth utilized.

Dimensions are accurate if the inside floor and exterior ground are the same level.



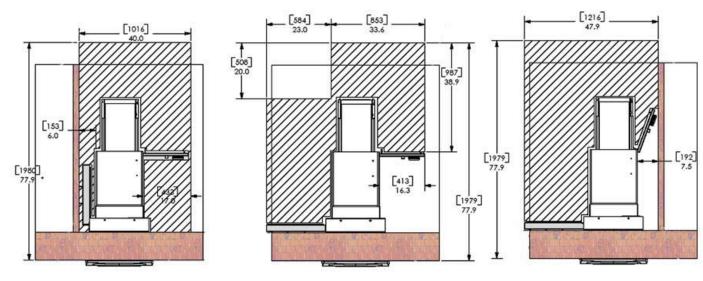




## SERVICE AREA DIMENSIONS BUSINESS HOURS CABINET

#### STANDARD (LONG) CONFIGURATION

Note: Maximum exterior wall thickness 10" [254 mm].



Minimum Service Area 1

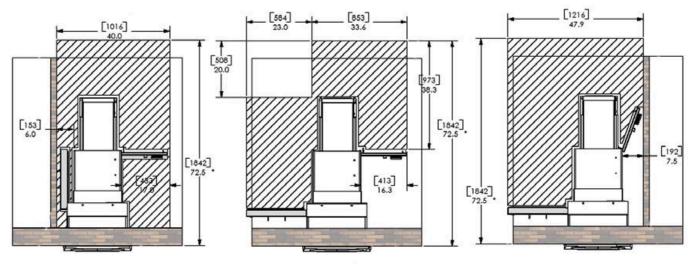
Preferred Service Area 1

Minimum Service Area 2

- Indicates service area

#### ISLAND (SHORT) CONFIGURATION

Note: Maximum exterior wall thickness 6 - 1/4" [160 mm].



Minimum Service Area 1

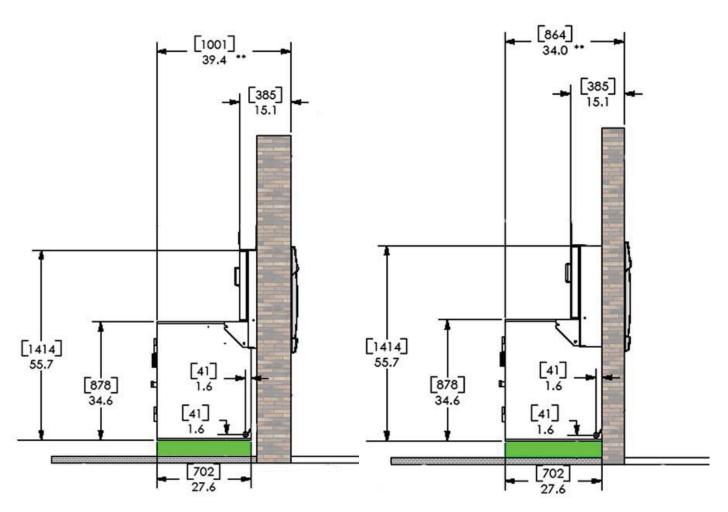
Preferred Service Area 1

Minimum Service Area 2



## PHYSICAL DIMENSIONS LEVEL 1 (VAULT) CABINET

#### SIDE VIEW



STANDARD (LONG) CONFIGURATION

ISLAND (SHORT) CONFIGURATION

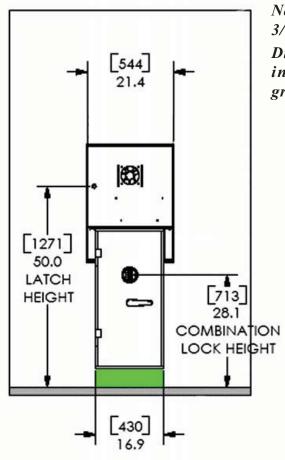
Note: Terminal shown with 4 - 3/4" plinth utilized.

Dimensions are accurate if the inside floor and exterior ground are the same level.



## PHYSICAL DIMENSIONS LEVEL 1 (VAULT) CABINET

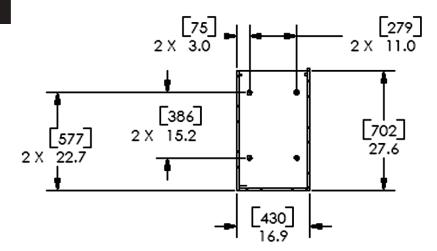
REAR VIEW



Note: Terminal shown with 4 - 3/4" plinth utilized.

Dimensions are accurate if the inside floor and exterior ground are the same level.

CABINET "FOOTPRINT"

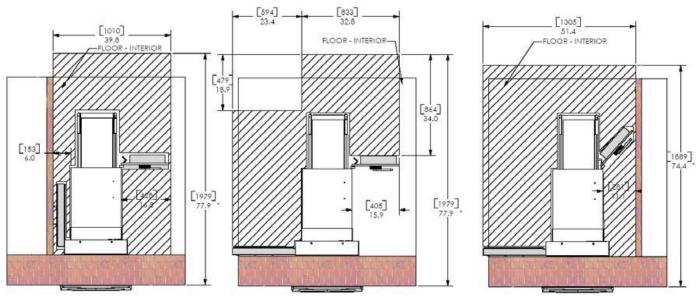




### Service Area Dimensions Level 1 (Vault) Cabinet

#### STANDARD (LONG) CONFIGURATION

Note: Maximum exterior wall thickness 10" [254 mm].



Minimum Service Area 1

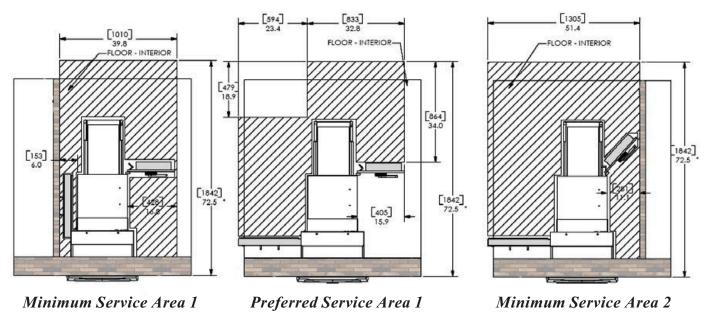
Preferred Service Area 1

Minimum Service Area 2



### ISLAND (SHORT) CONFIGURATION

Note: Maximum exterior wall thickness 6 - 1/4" [160 mm].



Triton WHERE MONEY COMES FROM.

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#### BEFORE YOU START

It's recommended that the unit be secured to the facility floor. The footprint of the cabinet floor allows for securing the unit through the leveling feet "plinth" hardware, regardless of how high the unit may be raised. It is the customer or their agent's responsibility to determine how/where the unit is affixed to the facility. Listed are some general considerations when securing the unit:

- What is the floor structure (concrete, wood, etc)? Is the unit a UL Level 1 (Vault) cabinet or Business Hours? Will the floor support the weight of the cabinet?
- Is the inside floor the same level as the outside ground? Will the unit require one of the optional plinths? See next page for determining if a plinth is required.
- Ensure that doorways and corridors leading to the point of installation are wide enough to allow the shipping package to pass through. If access is restricted, make arrangements to unpack the unit in an area with sufficient space and move it to the installation site.
- If installing an FT5000 where a previous ATM was installed, verify that the wall opening is consistent with the dimensions and height requirements listed in this manual. Modifications to the wall or floor may be required.
- Is exterior wall solid (brick, concrete)? Wood framed? Aluminum siding? Do you need to insulate the wall cavity?
- After cabinet is anchored, is the control panel facia trim flush against the exterior wall? Is this trim hardware sufficiently sealed to prevent moisture from entering the control panel electronics?

#### **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!



## DETERMINE IF PLINTH REQUIRED

Triton Systems offers two (2) metal-constructed optional plinths w/leveling feet. A "plinth" is a platform on which the ATM rests or is secured. A plinth enables the ATM to be installed at the required height through the wall. The plinths come in 2 heights: 2-3/8" (61mm - shown below) and 4-3/4" (122 mm). You can raise the unit by a fixed amount (2-3/8"or 4-3/4") and still be able to adjust up using the <u>plinths</u> leveling feet. To determine if you need to order a plinth with your unit, a few measurements will be needed at the site.

For sites that currently have a wall opening:

- 1. Measure from the bottom of opening to inside floor (Figure 1).
- 2. Cabinet dimensions are <u>26-1/2"</u> from bottom of sleeve to base of cabinet (Figure 2).
- 3. Subtract the difference to determine if a plinth is needed or what height plinth to order or build. If difference is less than 2-3/8" (for example), you may construct your own to fit.

Caution: The leveling feet on the cabinet itself should <u>not</u> be used to raise the unit significantly.



Figure 1. Determine height of opening to inside floor.

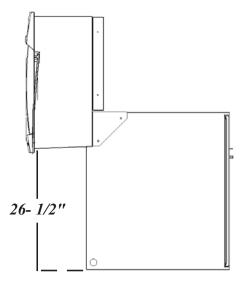
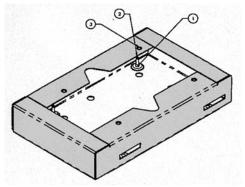


Figure 2. Height of cabinet base to bottom of sleeve (26-1/2").





## Tools Required

Tools / Items Recommended						
	g/moving devices rklift, lifting jack/trolley, etc)	Crowbar / roll bars, scrap lumber (blocking)				
Tape measure /	bubble level / framing square	Hammer / chisel				
1	belt / safety goggles,/mask eel-toed shoes	Marker / pencil				
Tool kit consisting of:  Adjustable wrench (large), box wrenches (open / closed) - up to 1-1/4" (32 mm) magnetic phillips / flattip screwdrivers, nutdriver set, diagonal cutters, etc  Water-resistant sealant (caulk, etc)						
	Recommend: Clear or color matching					
Anchoring Tools						
Torque wrench, adjustable to at least 60 foot pounds, adjustable wrench, or ratchet wrench						
Се	Center punch (or equivalent) for marking drill points					
Hammer	3/4" (19 mm) socket	Large flat screwdriver				
Bubble level	7/16" (11 mm) socket / box wrench	Safety goggles				
Hearing protection	1/4" (6 mm) , 1/2" (12 mm), and 9/16" (15 mm) carbide-tipped masonry drill bits - at least 6" (152 mm) long	3/4" (19 mm) heavy -duty electric drill (rotary/hammer)				
Back support belt	Portable vacuum cleaner	Wire brush				
1/2" (12 mm) flat washers	1/2" (12 mm) x 4-1/4" (107 mm) sleeve-type anchor bolts	1/2" (12 mm) nuts				



#### INSTALLING CABINET THROUGH WALL OPENING

- 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 manual for information about reporting shipping damage.
- **2.** After unpacking the unit, move the cabinet using the proper lifting/moving device to the wall opening.

Note: The procedures for removing the dispenser to ease installation are referenced in "NMD-100 Removal" section.

3. Slide the unit up to the opening until the sleeve portion of the cabinet is near the wall.

\*Important\*

<u>DO NOT</u> install the control panel fascia at this time.

4. Measure the distance from the bottom of the wall opening to the bottom of the sleeve. This will be the height requirement of the "plinth", if needed. Add an additional 1/8" (3.175mm) to your measurement for clearance

#### Note

A "plinth" is a platform on which the ATM rests or is secured. This plinth enables the ATM to be installed at the required height through the wall.

5. If <u>no plinth</u> is required, slide the unit forward towards the wall opening so the sleeve protrudes slightly out the front exterior. This is needed to temporarily affix the control panel trim. Minor adjustments for raising/leveling the unit can be made using the **cabinet** leveling feet. Proceed to Step 8.



Slide unit up to interior wall.



Measure from bottom of wall opening to bottom of sleeve.

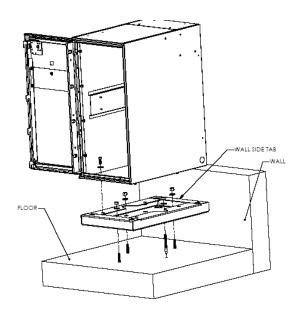


6. If a *plinth is used* (either built or purchased), mount the cabinet on the plinth. The optional plinths have a <u>wall tab</u> that is aligned facing the outside exterior wall. Anchor the cabinet to the plinth using the bolts provided (optional plinth) or secure to your built plinth. Tighten bolts enough to secure the two together for moving the unit.

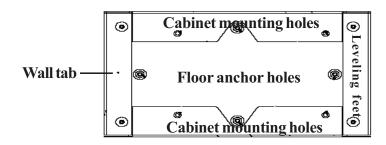
Note: Before installing the plinth, adjust the leveling feet a 1/4" (6mm) below the platform to gain access with an open-end box wrench for additional adjustments.



Sleeve protrudes slightly.



Mount cabinet on plinth.



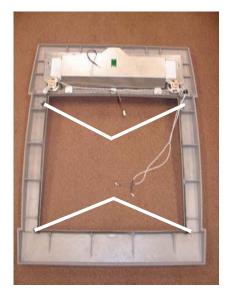
#### \*\*Caution\*\*

When placing the unit on the plinth, be careful not to damage the front of the sleeve as this has the control panel electronics and hardware mounted.

7. Slide/move the unit forward towards the wall opening so the sleeve protrudes slightly out the front exterior (Figure above). This is needed to temporarily affix the control panel trim. Minor adjustments for raising the unit can be made using the **plinths** leveling feet.



**8.** Locate the control panel trim included with the unit accessories. On the back side are four (4) clips that will align with 4 slots on the sleeve control panel.



Location of clips on control panel trim.



Location of slots on sleeve control panel.



Slide unit back flush to wall.

- 9. Temporarily mount the trim on the protruding sleeve. **DO NOT** secure with screws at this time.
- 10. Slide the unit back until the control panel trim is flush to the exterior wall.



- 11. (If applicable) Adjust the **plinth's** leveling feet to ensure the control panel trim is flush against the exterior wall and the cabinet is level.
- 12 Mark the anchor holes through the cabinet floor or mark around the plinth structure using masking tape, pencil, etc. Remove the control panel trim and slide the unit back inside.
- 13. Remove the unit from the plinth (if used). Align the plinth over the markings and mark the anchor holes. Drill the anchor holes and secure the plinth (if used) to the floor. Mount the unit back on the plinth (if used) and again slide the unit forward towards the wall opening until the sleeve protrudes slightly out the front exterior.

If no plinth was used, after drilling the anchor holes, again slide the unit forward towards the wall opening until the sleeve protrudes slightly out the front exterior.

#### **PLINTHS**

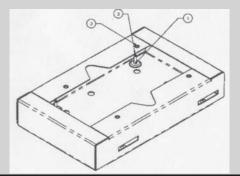
Based on the height requirement needed, you can either:

1) Raise the unit with the leveling feet installed in the cabinet (Business Hours and Level 1) using a 1/4" nut driver/socket wrench.

(Caution: The leveling feet are primarily for that purpose - leveling the ATM, not to raise the unit by a significant amount).

- 2) Construct your own. A plinth is a platform on which the ATM rests or is secured. A plinth enables the ATM to be installed at the required height through the wall. If built, it must be no smaller than the base of the cabinet and must be constructed of a material that is capable of supporting the weight of the ATM.
- 3) Purchase an optional Triton plinth (below). Raise the unit by a fixed amount 2 3/8" [61mm] or 4 3/4" [122mm] and still be able to adjust up using the <u>plinths</u> leveling feet (adjustable crescent wrench side access).

Caution: Leveling feet are primarily used for leveling the ATM, not to raise the unit by a significant amount.





#### Installing Control Panel Trim

- 1. Before mounting the trim, ensure the speaker wires and LED light cable are routed through the opening above the control panel. These will be connected later.
- 2. (Reference previous steps for mounting control panel trim) Align the trim clips with the sleeve slots and insert until the trim is seated on the control panel.
- 3. Once the trim is in place, open the cabinet on the back side of the sleeve and secure the trim panel with 16 Phillips head screws included in the accessory kit (4 on each side).

#### Note

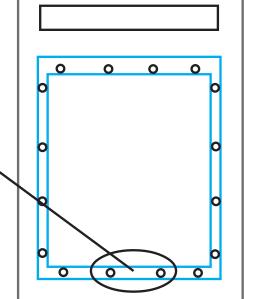
2 screws holes are accessed inside the small silver panel. Slide the dispensing mechanism back approximately one (1) foot and use a magnetic Phillips driver to hold screws. Screw holes are located in upper slots shown.



Remove retaining screw to open silver panel.



Screw locations for securing bottom of trim.



4. After the control panel trim has been secured, route the LED power cable and speaker wires through the cable clip grommet shown.



Route cables through grommet.



5. Connect the speaker wires to the audio input circuit board located in the lower right corner of the cabinet.

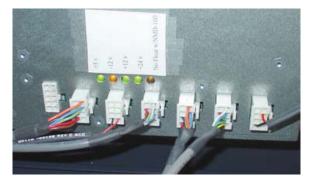


Connect speaker wires to audio board.

## Helpful Hint (for connecting speaker wires)

Since the location of the audio board and connectivity of wires may be difficult to work with, recommend remove the audio board from the Control panel. Notice the retaining bar circled in figure at left. Using a small handle phillips driver (magnetic), remove one of the screws and loosen the other to "swing" bar out of way. This allow you to remove the audio board and connect the speaker wires in a more convenient way. Remember to resecure audio board back in control panel.

**6.** Connect the 8-pin molex connector of the LED power cable to any unused connector of the power supply. *Note:* The largest connector (10-pin) of the power supply is reserved. **DO NOT** connect the LED power cable here!



- 7. With 2 persons (inside/outside), slide the whole unit back inside until the control panel trim is flush with the outside wall.
- **8.** Before securing/anchoring the cabinet, check to ensure the control panel trim is flush against the exterior wall. Minor adjustments can be made using the cabinet leveling feet.
- 9. Secure/anchor the cabinet to the floor or plinth, if used. Cabinet/trim installation is complete.



#### SEALING THE CONTROL PANEL TRIM

To ensure that the temperature around the unit is maintained during cold weather, it's important that the wall opening is prepared correctly. Any cavity in the wall should be sealed to provide a flush surface. The gap between the ATM and the inside wall opening should be left clear to allow air to circulate at room temperature. After the control panel trim is installed, a **good weather seal is needed between the exterior wall and the trim**. A suitable water -resistant sealant product is required around the periphery of the control panel trim. There are also products that are color tinted to closely match the trim color.



Control panel trim sealed.

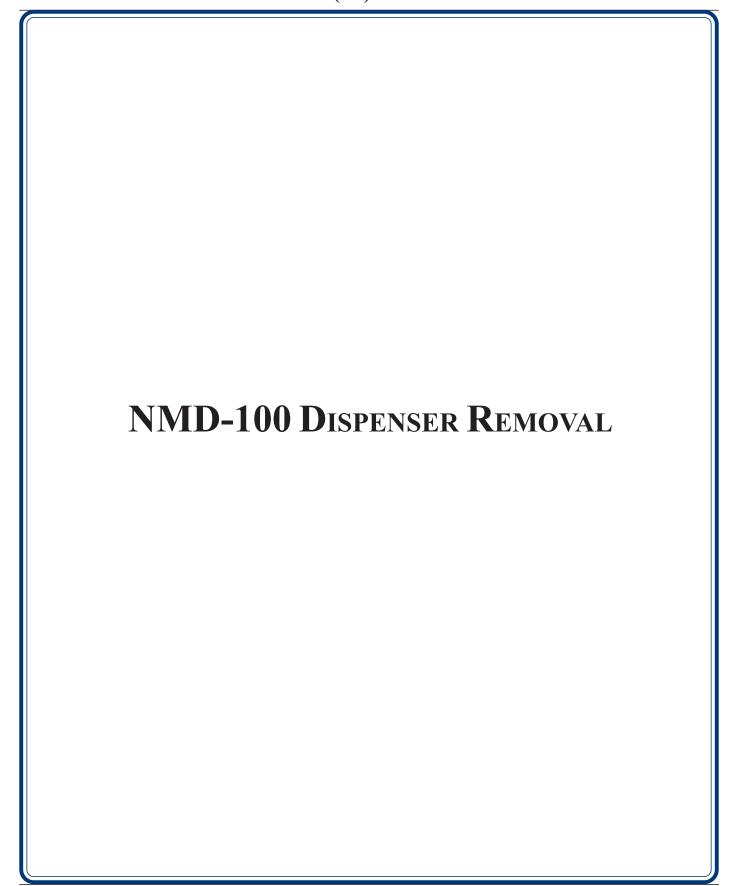
#### \*\*IMPORTANT\*\*

SEAL THE TRIM TO THE EXTERIOR WALL WITH A WATER-RESISTANT SEALANT TO PREVENT WATER INTRUSION. <u>DO NOT</u> SEAL AROUND THE BOTTOM OF THE TRIM! A SMALL DRAIN HOLE IS LOCATED ON THE UNDERSIDE THAT MUST BE CLEAR.



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#### REMOVING THE DISPENSER

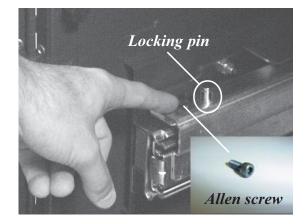
The dispensing mechanism for the FT5000 may be shipped hanging on the side rails inside the security vault. Several protective foam blocks have been strategically placed behind and along each side of the dispensing mechanism to reduce any movement during transit. The foam blocks must be removed before the dispensing mechanism can be removed. If the dispenser is shipped inside the cabinet, follow the procedures below for removal.

- 1. Unlock and open the cabinet sleeve door. Verify that the power switch located on the power supply is in the OFF (0) position. Close the sleeve door.
- 2. Open the security vault and remove all protective foam blocks from around the dispensing mechanism.
- 3. Refer to Figure 1. Remove the transport 5/32" Allen screws (if applicable) located on top front of each slide rail. **DISCARD SCREWS AFTER REMOVAL!**
- 4. Pull the dispensing mechanism out of the cabinet until it reaches its fully extended position. The left slide rail has a locking pin that must be disengaged to extend the rail.

#### UNLOCKING 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.



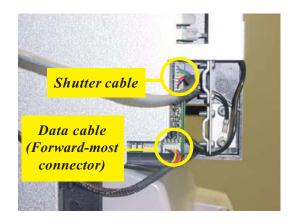
Slide rail locking pin and thumb screw location.



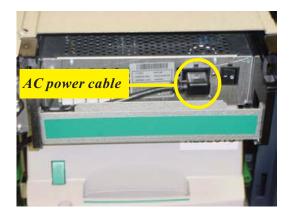
Dispenser fully extended on its mounting rails.



5. Refer to figures below. Disconnect the DC power, serial communications, and shutter cables from the dispensing mechanism.







AC power cable connection.

6. Using two persons, grasp the green handles and lift the dispenser off the rails and slide out of the cabinet.

#### \*\*WARNING\*\*

Two persons recommended to remove the dispenser from the cabinet.

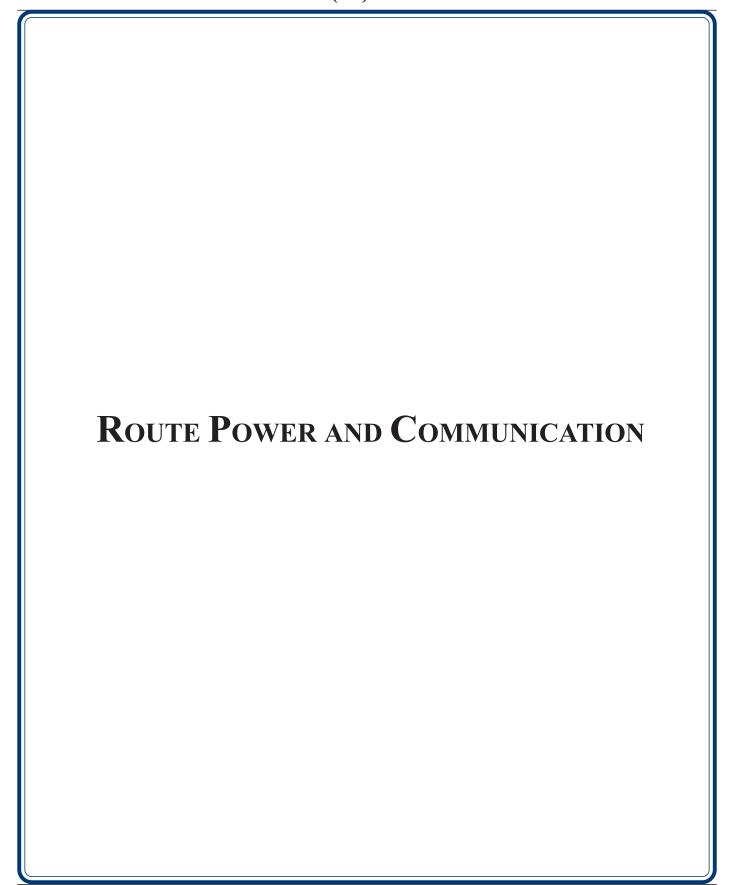
When removing dispenser from cabinet, use caution not to damage the throat extension on front of dispenser mechanism.

- 7. Place the dispenser in a safe location where it will not get accidently damaged.
- 8.\* If installing the cabinet at this time, follow the procedures provided in "Installation" section of this manual.



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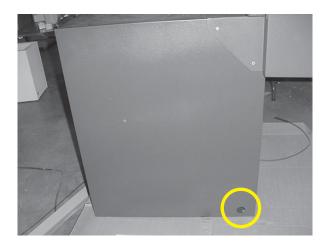




## ROUTE AC POWER AND COMMUNICATION CABLE

NOTE: Before you start, unlock and open the rear control panel cabinet door. Verify that the power switch on the unit's power supply is in the OFF (0) position. Close the control panel door.

- 1. Open the vault cabinet door. Route the AC power cord and the phone (or Cat-5) cable through either the main or alternate cable access hole (as applicable). Install the supplied snap bushing into the access hole that carries the power and phone cords.
- 2. Plug the AC power cord into the wall outlet. Plug the phone cable (or CAT-5) into the wall mounted jack.
- 3. Secure/plug the unused access hole with the grommet or plug provided.



Right front side access hole.



Left front side access hole.



Install snap bushing on access hole that carries power and phone cords.



#### **Power Outlet Accessibility**

Whether you are installing a new AC socket 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 equipment.
- 2. AC power for the terminal should come from a dedicated source with an isolated ground. The ATM is designed to work on an IT (Isolated-Terra) type power system having a phase-to-phase voltage not exceeding 240 volts.
- **3.** The outlet is easily accessible and will not be blocked once the equipment is installed.

#### 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 specific countries require 1.0 mm2) conductors.
- 5. Maximum length: 3 meters.



#### TCP/IP (ETHERNET)

The Ethernet option makes your FT5000 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 FT5000 ATM.

#### TCP/IP CABLE (CAT-5) CONNECTIVITY

- 1. If the unit is **ON**, enter **Management Functions** > **System Parameters** > **Shut Down the Terminal.** When prompted on the screen, 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 <u>"Power and Communication"</u>. 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 **X2 Main Board** assembly as shown in figure below.
- 4. Secure cable into existing cable harness runs. Refer to the Configuration manual for programming Ethernet options.







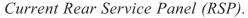
# REAR SERVICE PANEL(S) INSTALLATION



## REAR SERVICE PANEL

The current Rear Service Panel (RSP) is shipped in its own container. Follow the procedures below for installing the RSP. Note: The current FT5000s RSP (shown below, Left) will be replaced with the Touchscreen display (used in RT2000, shown below, Right) at a date to be determined.







Touchscreen Rear Operator Panel (ROP).

- 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. If the unit is **ON**, enter **M**ANAGEMENT FUNCTION > SYSTEM **P**ARAMETERS > SHUT **D**OWN THE **T**ERMINAL. When prompted on the screen, open the sleeve cabinet and turn the power switch on the power supply to the **OFF** (0) position.
- 3. Look on top of the cabinet sleeve and locate the five (5) mounting screw holes as shown in Figure 1. If there is a cable plug inserted, remove it by pushing up from inside the cabinet.
- 4. Remove the RSP and parts supplied from its shipping container. Remove the back panel of the RSP by loosening the 2 thumb screws located on top of panel and lifting back panel up off its retaining slots (Figure 2).

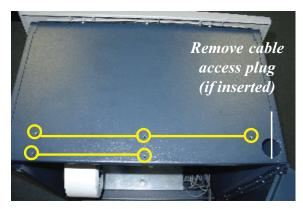


Figure 1. Mounting screw holes (5).



Figure 2. Loosen 2 thumb screws and remove back panel.



- 5. Place the service panel on top of the cabinet sleeve as shown in Figure 3. **CAUTION:** Panel overhangs slightly on edge of cabinet top when mounted. Panel may tip over before routing cables and inserting screws, so rest panel back on cabinet top before continuing with next steps.
- 6. Route the power and data cables through the cable access opening shown in Figure 4. Feed cables into cabinet (Figure 5) but <u>DO NOT</u> connect at this time. Locate the black plastic grommet included in accessory box and insert in the cable opening to protect cable run.



Figure 3. Locate panel on top of cabinet sleeve.



Figure 4. Feed cables through cable opening on top of cabinet.



Figure 5. View of cables from inside sleeve cabinet.

- 7. Slide service panel over mounting screw holes and secure to cabinet top using the five (5) Phillip screws provided (Figure 6).
- 8. Place the paper roll on the spindle ensuring the paper feeds from the <u>TOP</u> of the roll as shown in Figure 7.



Figure 6. Secure RSP to top of cabinet.



Figure 7. Insert paper roll on spindle (paper feeds from **TOP**).



- 9. Insert the edge of the paper roll into the printer take-up slot as shown in Figure 8. The printer will automatically grip and pull the paper into the paper path. If the paper feeds automatically, skip to step 12; if the paper does not feed automatically, continue with step 10.
- 10. Pull the pin located on the left side of the printer bracket (Figure 9). Rotate the printer assembly upwards as shown in Figure 10.
- 11. The blue tension lever is located on the right side of the assembly. It must be in the closed position (Figure 11 and insert). If not, move the lever (moves in 3 positions) to the closed position. Close the printer assembly and retry to feed the printer paper. If successful, continue with step 12.



Figure 8. Paper feeds automatically in take-up slot.



Figure 9. Pin location.

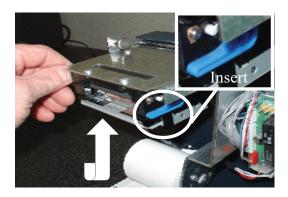
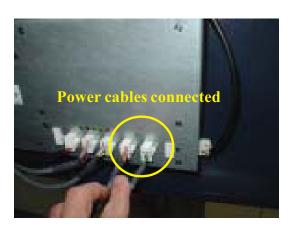


Figure 10. Printer assembly opened and blue tension lever position (insert).

12. Reinstall the back panel to the RSP. Guide the back panel slots over the 2 tabs located on the bottom of the front panel and rotate forward until closed. Tighten the 2 thumbscrews.



- 13. Connect the 2 power cables to any unused 8 pin connectors on the power supply (Figure 11).
- 14. Route the data cable (RJ-45 connector end) along the existing cable run and connect to the "Auxillary" port on the docking board (Figure 12).





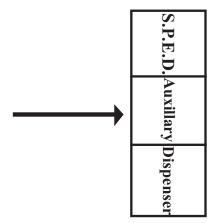


Figure 12. Data cable connection.

## \* CONFIGURE THE REAR SERVICE PANEL JUMPER \*

The Rear Service Panel (RSP) for the FT5000 or RT2000, you must set the jumper (J11) for your RSP (located on the **Docking Board** assembly).

The current FT5000 RSP (Figure 1) must have the jumper set to "DTR". The **Touchscreeen RSP** display (Figure 2) that must have the jumper set to "12V".

Note: If your FT5000 comes with this touchscreen, you must set the jumper to "12V".

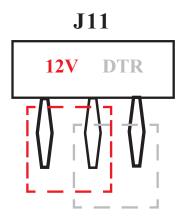




Figure 1. Rear Service Panel - "DTR".



Figure 2. Touchscreen Service Panel - "12V".



#### REAR OPERATOR SERVICE PANEL

Note: The current FT5000s RSP will be replaced with a touchscreen display at a date to be determined. If your FT5000 comes with this touchscreen panel, follow the procedures below for installing.

The Operator Service Panel (OSP) is a touchscreen panel. If shipped separately (in the auxilliary box), follow the procedures below.

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.

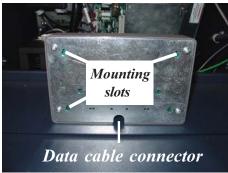


Operator Service Panel

- 2. If the unit is **ON**, enter **M**ANAGEMENT FUNCTION > SYSTEM **P**ARAMETERS > SHUT **D**OWN THE **T**ERMINAL. When prompted on the screen, open the sleeve cabinet and turn the power switch on the power supply to the **OFF** (0) position.
- 3. The mounting bracket for the panel is located in the upper right corner as shown. There are three (3) mounting studs visible. SEE WARNING: next page
- 4. Mount the panel so that the date cable will be connected on the *bottom* of the panel. Figure 2).
- 6. Connect the Data cable (RJ-45 connector end) to the OSP shown. The other end of the cable is connected to the "Auxillary" port on the **Docking Board (same as current RSP).**



Mounting bracket.

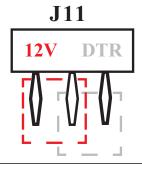


Rear view of OSP.



OSP mounted.

Note: The jumper (J11) on the <u>Docking</u> Board assembly MUST be set to "12V".

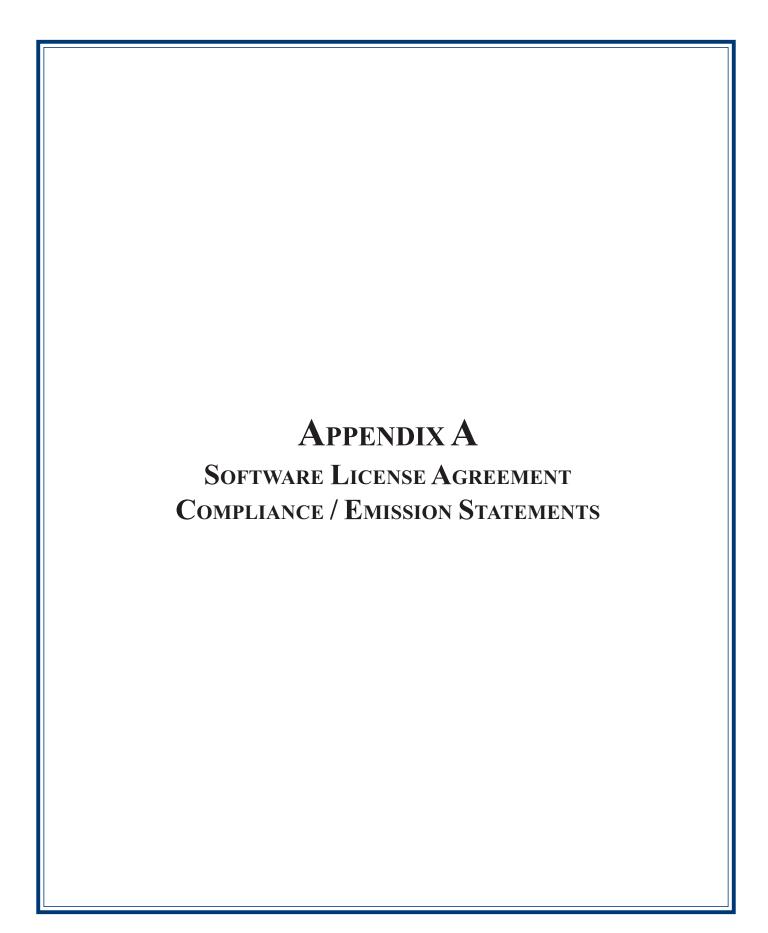




## **WARNING:**

Inspect the Mounting Bracket Studs and RSP Mounting Holes closely. Note the studs have grooves provided for the RSP to mount onto. Ensure the RSP sets down onto the studs properly on all 3 (three) mounting points. Failure to do so may allow the RSP to become dislodged, which may cause physical and electrical damage to the RSP and possibly personal injury.





# AUTOMATED TELLER MACHINE ("ATM") SOFTWARE END-USER AGREEMENT

## **IMPORTANT: PLEASE READ CAREFULLY:**

BY INSTALLING OR OTHERWISE USING THE ATM, YOU (AS THE OWNER OR LESSEE OF THE ATM). AGREE TO BE BOUND BY THE FOLLOWING TERMS AND CONDITIONS, INCLUDING, WITHOUT LIMITATION, THE WARRANTY DISCLAIMERS, LIMITATIONS OF LIABILITY AND TERMINATION PROVISION WHICH APPLY TO YOUR USE OF THE ATM SOFTWARE CONTAINED IN THIS ATM AND IS HEREBY LICENSED BY TRITON SYSTEMS OF DELAWARE, INC. ("Triton") TO YOU PURSUANT TO THIS AGREEMENT.

IF YOU DO NOT AGREE TO OR ARE NOT WILLING TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS AGREEMENT, DO NOT INSTALL OR OTHERWISE USE THIS ATM AND PROMPTLY CONTACT YOUR VENDOR. INSTALLING OR OTHERWISE USING THE ATM INDICATES THAT YOU ACCEPT THESE TERMS.

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YOUR SOLE REMEDY AGAINST TRITON FOR DEFECTIVE PERFORMANCE OF THE ATM SOFTWARE WILL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ATM AND/OR THE ATM SOFTWARE, AT TRITON'S SOLE DISCRETION.

Any warranty pertaining to the ATM, its mechanical components exclusive of the ATM software, shall be governed and controlled by any warranty given to you by Triton in a separate document accompanying this ATM.

The foregoing limitation of liability and exclusion of certain damages will apply regardless of the success or effectiveness of other remedies.

**GOVERNING LAW:** This License Agreement shall be governed by the laws of the State of Mississippi and by the laws of the United States, excluding their conflicts of laws principles.

**SEVERABILITY:** In the event any provision of this License Agreement is found to be invalid, illegal or unenforceable, the validity, legality and enforceability of any of the remaining provisions shall not in any way be affected or impaired.

**ENTIRE AGREEMENT:** This License Agreement and the accompanying Limited Warranty set forth the entire agreement between you and Triton, supersedes all prior agreements, whether written or oral, with respect to the ATM Software, and may be amended only in writing signed by both parties.



## COMPLIANCE / EMISSION STATEMENTS **DISCLAIMER**

The manufacturer of the Automated Teller Machine (ATM) product(s) described herein makes no representations or warranties, either expressed or implied, by or with respect to anything in this manual, and shall not be liable for any implied warranties of fitness for a particular purpose or for any indirect, special, or consequential damages. Information in this document is subject to change without notice and does not represent a commitment on the part of the manufacturer.



## \*\* CAUTION \*\*

Changes or modifications not expressly approved by Triton Systems could void the regulatory compliance approval and the warranty. Use of this product in a manner other than those described in this manual may result in personal injury!

#### FCC COMPLIANCE

Statement of Compliance: This equipment complies with Part 68 of the FCC rules. Located in the control area of the 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. USOC/FIC Codes: When ordering service from the telephone company for the Model FT5000X2 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 Model FT5000X2 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.



## APPENDIX A - SOFTWARE LICENSE AGREEMENT/COMPLIANCE /EMISSION STATEMENTS

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 Model FT5000X2 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 Model FT5000X2 ATM must not be used on party lines.

Alarm Equipment: The Model FT5000X2 ATM should have its own dedicated phone line. Do not install the FT5000X2 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 Model FT5000X2 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.



## MODEL FT5000 (X2) INSTALLATION MANUAL

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 Ringer Equivalence Numbers 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 l'entreprise locale de télécommunication. Le matériel 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 cidessus 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.



## APPENDIX A - SOFTWARE LICENSE AGREEMENT/COMPLIANCE /EMISSION STATEMENTS

#### 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)**

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 EMISSION 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 / Australian Emission 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.



## Model FT5000 (X2) Installation Manual

#### Notices

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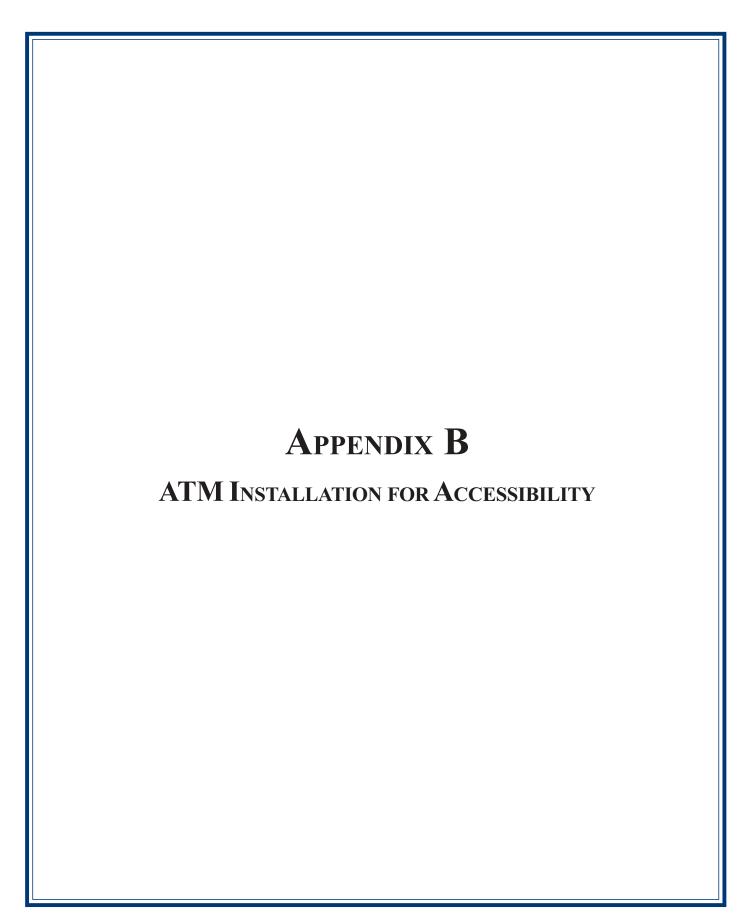
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## MODEL FT5000 (X2) INSTALLATION MANUAL

## A Guide to the New ADA-ABA Accessibility Guidelines

On July 23, 2004, the U.S. Access Board, an independent Federal agency, issued updated accessibility guidelines for new or altered facilities covered by Americans with Disabilities Act and the Architectural Barriers Act. These guidelines address a wide range of facilities in the private and public sectors. Presented here is an overview of the new guidelines that also highlights significant changes. The following guidelines (305 and 308) pertain to floor/ground space and reach ranges.

#### When will the new guidelines take effect?

The Board's guidelines are not mandatory on the public, but instead serve as the baseline for enforceable standards (which are) maintained by other Federal agencies. In this respect, they are similar to a model building code in that they are not required to be followed except as adopted by an enforcing authority. Under the ADA, the Department of Justice (and in the case of transit facilities, the Department of Transportation) are responsible for enforceable standards based on the Board's guidelines. These agencies will update their ADA standards based on the new guidelines. In doing so, they will indicate when the new standards are to be followed. Several other agencies (the General Services Administration, Department of Defense, Department of Housing and Urban Development, and the U.S. Postal Service) hold a similar responsibility for standards used to enforce the ABA.

## **Existing Facilities**

The ADA and ABA guidelines cover new construction and planned alterations and generally do not apply to existing facilities except where altered. Facilities built or altered according to earlier versions of the ADA or ABA standards will not necessarily have to meet the updated version except where they are subsequently altered or renovated. The Department of Justice, which regulates requirements for existing facilities under the ADA, intends to address coverage of facilities built or altered according to the original ADA standards in its rulemaking to update the standards. It will also address facilities retrofitted under ADA provisions for existing facilities, such as the requirement for barrier removal in places of public accommodation. With respect to ABA facilities, the Board has clarified in the guidelines that facilities built to earlier ABA standards are subject to the new requirements only in relation to planned alterations.

## 305. Clear Floor or Ground Space

- **305.1 General.** Clear floor or ground space shall comply with 305.
- **305.2** Floor or Ground Surfaces. Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted.

**EXCEPTION**: Slopes not steeper than 1:48 shall be permitted.

**305.3 Size.** The clear floor or ground space shall be 30 inches (760 mm) minimum by 48 inches (1220 mm) minimum.

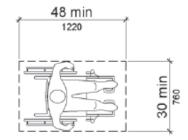


Figure 305.3 Clear Floor or Ground Space



## APPENDIX B - ATM INSTALLATION FOR ACCESSIBILITY

- **305.4 Knee and Toe Clearance.** Unless otherwise specified, clear floor or ground space shall be permitted to include knee and toe clearance complying with 306.
- **305.5 Position.** Unless otherwise specified, clear floor or ground space shall be positioned for either forward or parallel approach to an element.

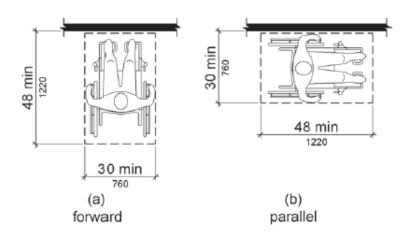
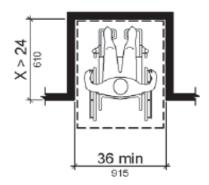
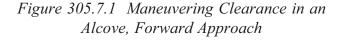


Figure 305.5 Position of Clear Floor or Ground Space

- **305.6 Approach**. One full unobstructed side of the clear floor or ground space shall adjoin an accessible route or adjoin another clear floor or ground space.
- **Maneuvering Clearance.** Where a clear floor or ground space is located in an alcove or otherwise confined on all or part of three sides, additional maneuvering clearance shall be provided in accordance with 305.7.1 and 305.7.2.
- **305.7.1** Forward Approach. Alcoves shall be 36 inches (915 mm)wide minimum where the depth exceeds 24 inches (610 mm).
- **305.7.2 Parallel Approach.** Alcoves shall be 60 inches (1525 mm) wide minimum where the depth exceeds 15 inches (380 mm).





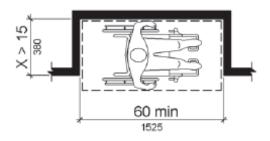


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach



#### 308. Reach Ranges

**308.1 General.** Reach ranges shall comply with 308.

#### 308.2 Forward Reach.

**308.2.1 Unobstructed.** Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

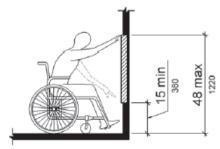


Figure 308.2.1 Unobstructed Forward Reach

**308.2.2 Obstructed High Reach.** Where a high forward reach is over an obstruction, the clear floor space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches (1220 mm) maximum where the reach depth is 20 inches (510 mm) maximum. Where the reach depth exceeds 20 inches (510 mm), the high forward reach shall be 44 inches (1120 mm) maximum and the reach depth shall be 25 inches (635 mm) maximum.

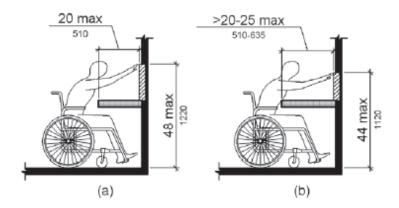


Figure 308.2.2 Obstructed High Forward Reach



#### 308.3 Side Reach.

**308.3.1** Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high sidereach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

#### **EXCEPTIONS:**

- 1. An obstruction shall be permitted between the clear floor or ground space and the element where the depth of the obstruction is 10 inches (255 mm) maximum.
- 2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

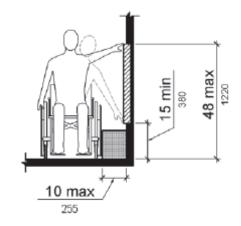


Figure 308.3.1 Unobstructed Side Reach

**308.3.2 Obstructed High Reach.** Where a clear floor or ground space allows a parallel approach to an element and the high side reach is over an obstruction, the height of the obstruction shall be 34 inches (865 mm) maximum and the depth of the obstruction shall be 24 inches (610 mm) maximum. The high side reach shall be 48 inches (1220 mm) maximum for a reach depth of 10 inches (255 mm) maximum. Where the reach depth exceeds 10 inches (255 mm), the high side reach shall be 46 inches (1170 mm) maximum for a reach depth of 24 inches (610 mm) maximum.

#### **EXCEPTIONS:**

- 1. The top of washing machines and clothes dryers shall be permitted to be 36 inches (915 mm) maximum above the finish floor.
- 2. Operable parts of fuel dispensers shall be permitted to be 54 inches (1370 mm) maximum measured from the surface of the vehicular way where fuel dispensers are installed on existing curbs.

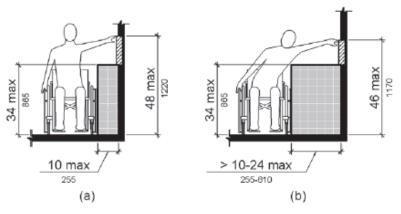


Figure 308.3.2 Obstructed High Side Reach



## MODEL FT5000 (X2) INSTALLATION MANUAL

#### 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 at 1-800-514-0301.
- 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 automated teller machine machine required to be accessible by **4.1.3** (Accessible Buildings: New Construction) shall be on an accessible route and shall comply with **4.34** (Automated Teller Machines).
- **4.34.2** Clear Floor Space. The automated teller machine shall be located so that clear floor space complying with **4.2.4** (Clear Floor or Ground Space for Wheelchairs) 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 (Forward Reach).
- **(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:



#### APPENDIX B - ATM INSTALLATION FOR ACCESSIBILITY

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** (Operation).
- **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** (Automated Teller Machines) 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 (Controls and Operating Mechanisms)** and **4.34.3 (Reach Ranges).** 



## 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.

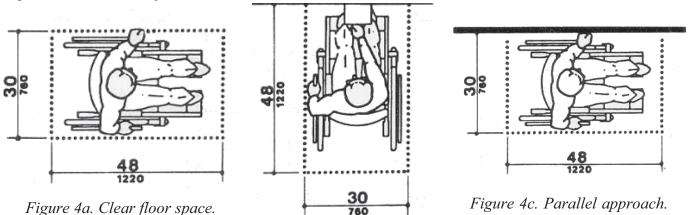
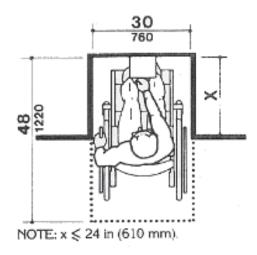


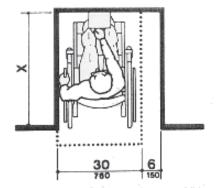
Figure 4b. Forward approach.

**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).



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).

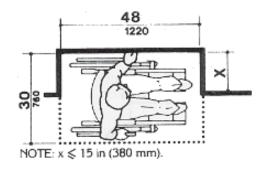


NOTE: If x > 24 in (610 mm), then an additional maneuvering clearance of 6 in (150 mm) shall be provided as shown.

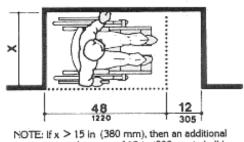
Figures 4e. Clear Floor Space in Alcove.

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.





Figures 4d. Clear Floor Space in Alcoves.



maneuvering clearance of 12 in (305 mm) shall be provided as shown.

Figures 4e. Clear Floor Space in Alcove.

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 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.

- **4.2.4.3** Surfaces for Wheelchair Spaces. Clear floor or ground spaces for wheelchairs shall comply with 4.5 (Ground and Floor Surfaces).
- 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).

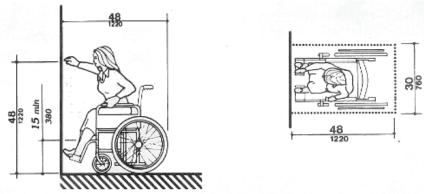
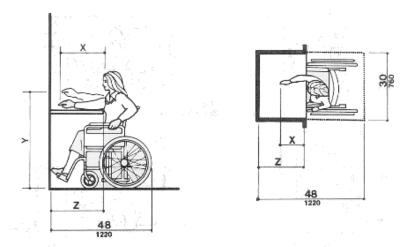


Figure 5a. Forward reach, unobstructed.

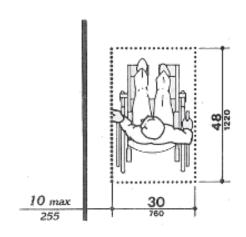




NOTE: x shall be  $\leq$  25 in (635 mm); z shall be  $\geq$  x. When x  $\leq$  20 in (510 mm), then y shall be 48 in (1220 mm) maximum. When x is 20 to 25 in (510 to 635 mm), then y shall be 44 in (1120 mm) maximum.

Figure 5b. Forward reach, obstructed.

**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).



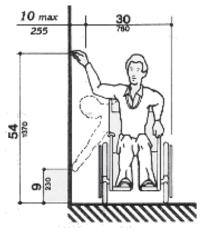


Figure 6a. Parallel approach - side reach.

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

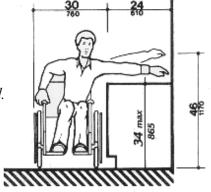


Figure 6c. Side reach, obstructed.



Outside Handicap Access Area					
48" (1219 mm) - Across -	30" (762 mm) - Deep -	* Measured from center of Control Panel Fascia *			

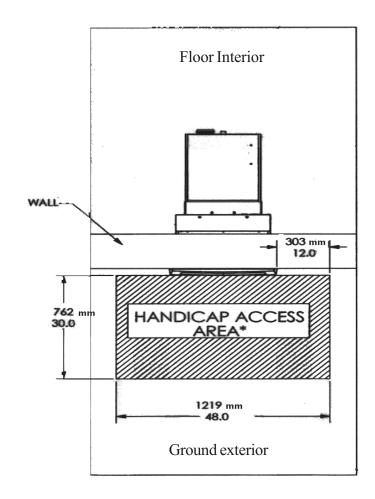


Figure 7. Handicap access area.

## Model FT5000 (X2) Installation Manual

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