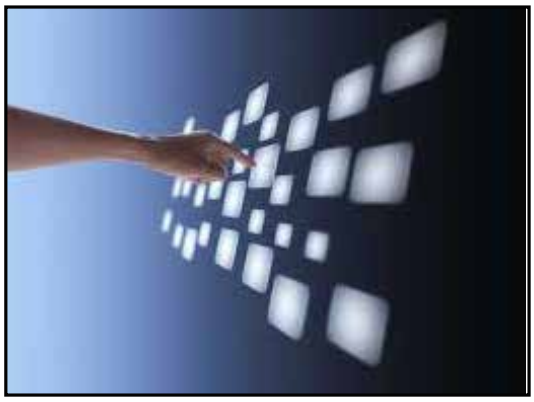
Triton®

Partnership Measured in Decades...

ARGO™

Automated Teller Machine Installation Manual

TDN 07103-00338 Rev E. February 19, 2016



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DOCUMENT UPDATES

Date	Description
2/19/13	Original
3/3/13	Added intra-level bracket info
3/25/13	Added installation of security bracket in lower cabinet
4/8/13	Added “Replacing Older Units” info
4/10/15	Added new drawings for ARGO 15 decal area
2/19/16	Added updates for Relative Humidity requirements
8/27/18	Updated temperature and humidity requirements

Introduction

The Triton ARGO ATM is a lobby terminal designed for indoor use only. The ARGO line includes models RL1713, RL27XY, and RL63XY. The following sections provide the requirements for installing the ARGO for your particular site location. To assist in preparing your site, a check list is provided of various steps that should be carried out **prior** to the arrival of the ATM.

Contents

Purpose

This guide covers the procedure for installing a Triton ARGO ATM with security, stability and ease of operation in mind.

Scope

This procedure applies to all service personnel involved in the process of maintaining, converting, or upgrading hardware and software on Triton ATMs nationwide and abroad.

Application

This Installation Guide provides information, methods and requirements for the physical installation of the Triton ARGO ATM. It contains site preparation, electrical specifications, and cabinet accessibility options that comply with all relevant codes, laws and regulations.

Required Parts and Tools

TOOLS REQUIRED	Torque wrench adjustable to at least 60 foot pounds, adjustable crescent wrench or ratchet wrench, hammer, 3/4" (19mm) socket, large flat screwdriver, bubble level, 7/16" socket/box wrench, safety goggles, hearing protection, 1/4" (6mm), 1/2: (12mm) and 9/16" (15mm) carbide-tipped masonry drill bits at least 6" long, 3/4" heavy-duty electric drill (rotaty hammer, back support belt, portable vaccuum cleaner, wire brush.
******NOTE:******	The following kit is required, but not supplied. Call number below for information on availability.
KIT # 06200-00066	Standard anchor kit (four 1/2" x 4 1/2" sleeve-type anchor bolts, 1/2" nuts, 1/2" flat washers)

Site Compliance

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). Ensure access will not be hindered by cabinet placement.
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. Refer to Appendix B.

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.

Environmental Precaution Checklist

SITE PREPARATION CHECKLIST	
1. Select site and design floor plan accordingly.	
2. Ensure all environmental conditions are met.	
3. Establish contractor and vendor schedules.	
4. Check communication line requirements.	
5. Plan installation and accessory needs before starting.	
6. Check floor plan and make necessary alterations.	
7. Install all required electrical fixtures.	
8. Prepare site for communications needs.	
9. Plan operator/training exercises (optional).	
10. Install communication lines and test.	
11. Ensure installation accessories are available.	

Temperature / Humidity

1. **The ATM will operate over a range of temperatures and humidity. Generally, these parameters must fall within the following ranges:**

   Temperature

   - 10°C to 40°C
   - 50°F to 104°F

   Relative Humidity (Non-Condensing)

   - 20% - 80%
   - (20% - 70% for polymer banknotes)

AC Power Requirements

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

   Current (Max)

   - 3.3A @ 115 VRMS at 60 Hz

   Power Consumption (Idle)

   - 0.6A @ 115 VAC at 60 Hz

   Voltage

   - 90 - 136 VRMS @ 50/60 Hz

   Power Consumption (Max Load)

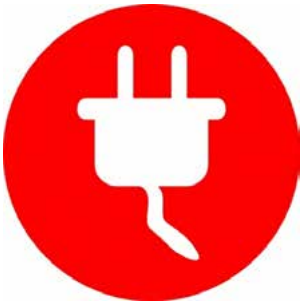
   - 396 Watts @ 120VAC

*** 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. (No extension cords)

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.

****WARNING****
DO NOT APPLY POWER TO THIS TERMINAL UNTIL THE INSTALLATION IS COMPLETE!!



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 (fax machines, Point of Sale devices)
   - **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 additional information on interference sources.

TCP/IP Connection

4. **When using TCP/IP communication, ensure:**
   - **Correct setup -** A clear path of communication has been set up for interface with Host/Processor.
   - **No firewalls -** There is no security firrewall that will prevent communication with the Host/Processor.

RF Interference

5. **Ensure there are no devices near the terminal that may cause RF interference, such as:**
   - ❑ TVs
   - ❑ Coolers
   - ❑ Security devices
   - ❑ Neon signs
   - ❑ Devices with compressors or motors.

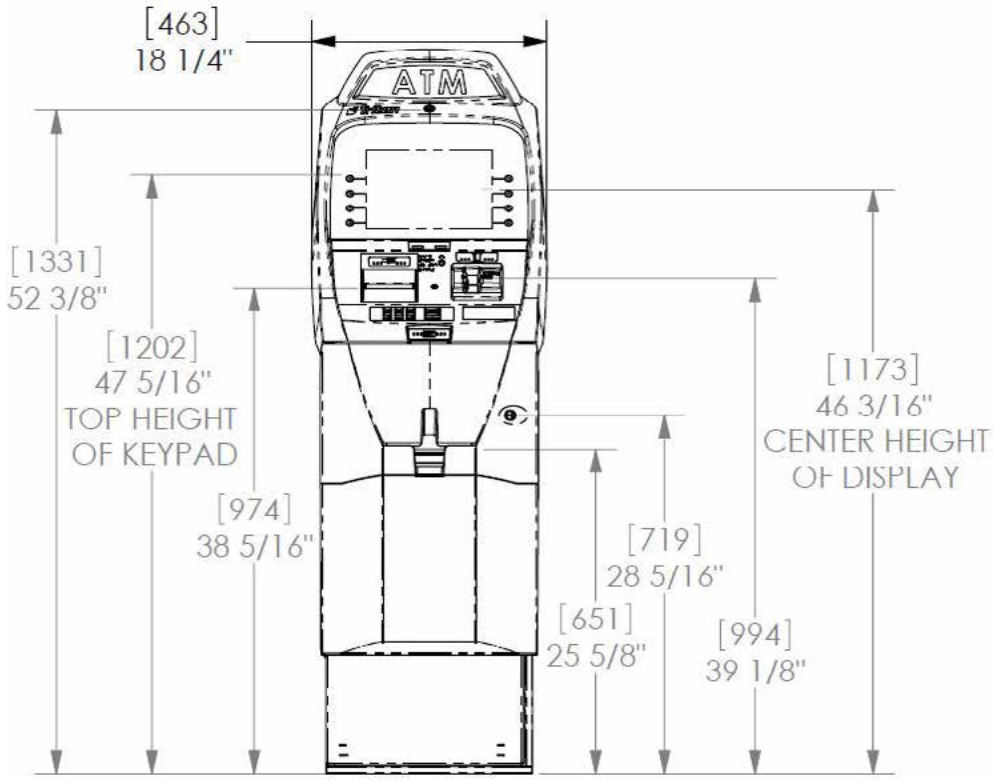
Dimensions

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. Dimensions shown in inches and [millimeters].

The ARGO cabinet is one of two basic sizes: deep or shallow cabinet. The shallow cabinet accomodates the MiniMech dispenser and the deep cabinet accomodates all other dispensers.

Deep Cabinet Front View

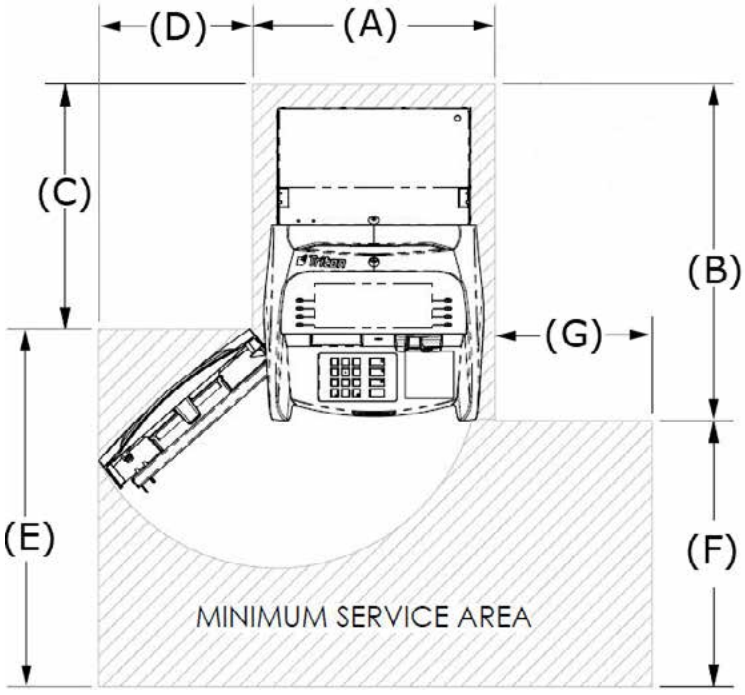
Customer Access Dimensions		
Feature		Height
1	Top Function Key	47 5/16” [1202mm]
2	#5 Key (Main Keypad)	36 1/2” [928mm]
3	Card Reader	39 1/8” [994mm]
4	Receipt Printer	38 5/16” [974mm]
5	Bill Tray	25 5/8” [651mm]



Deep Cabinet Service Area Dimensions

2” [51] clearance around cabinet sides and rear

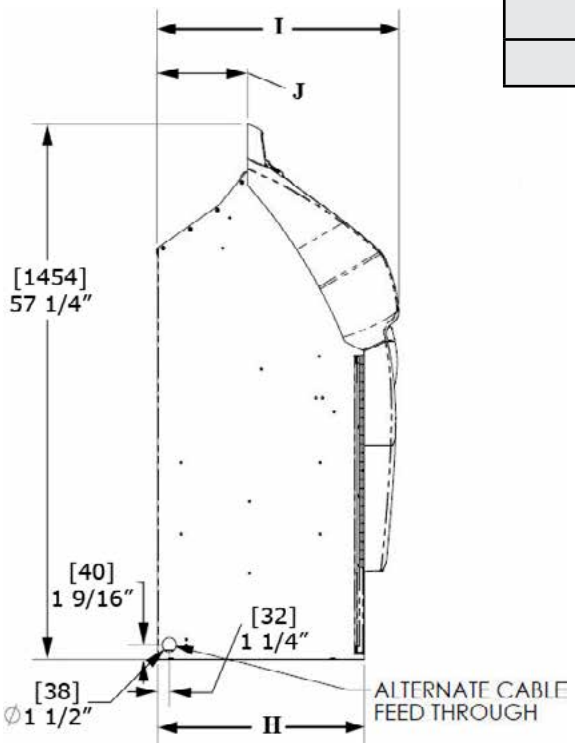
Dimensions Shown in inches/millimeters		
Dimension	Business Hours	Vault (Lvl 1)
A	20 1/8” [510]	20 1/8” [510]
B	27 7/8” [708]	28 1/4” [718]
C	20 5/16” [516]	20 1/4” [514]
D	12 3/4” [324]	14 5/16” [363]
E	29 9/16” [751]	30” [762]
F	22” [559]	22” [559]
G	13” [330]	13” [330]



Deep Cabinet Dimensions

Dimension	Business Hours	Vault (Lvl 1)
H	22 1/8" [562]	22 9/16" [573]
I	25 7/8" [658]	26 1/4" [667]
J	9 11/16" [246]	26 1/4" [667]

Side Views



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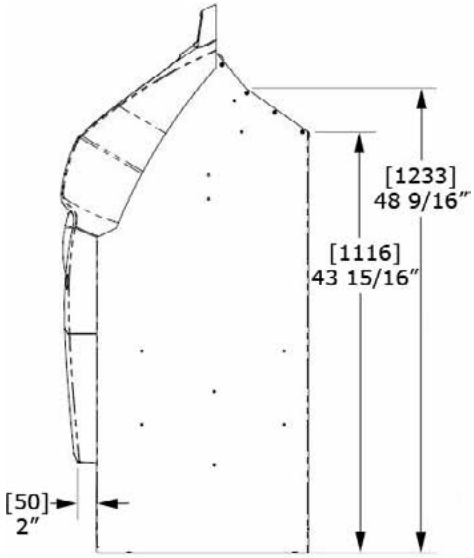

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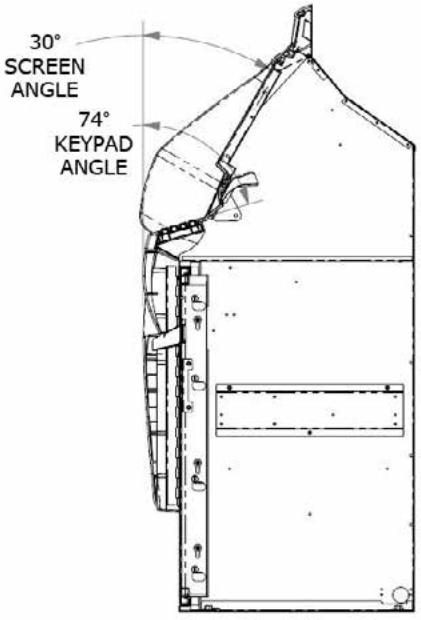

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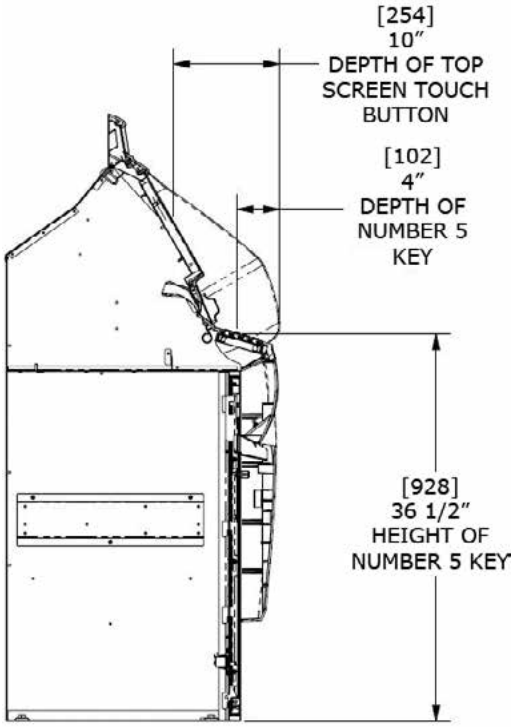

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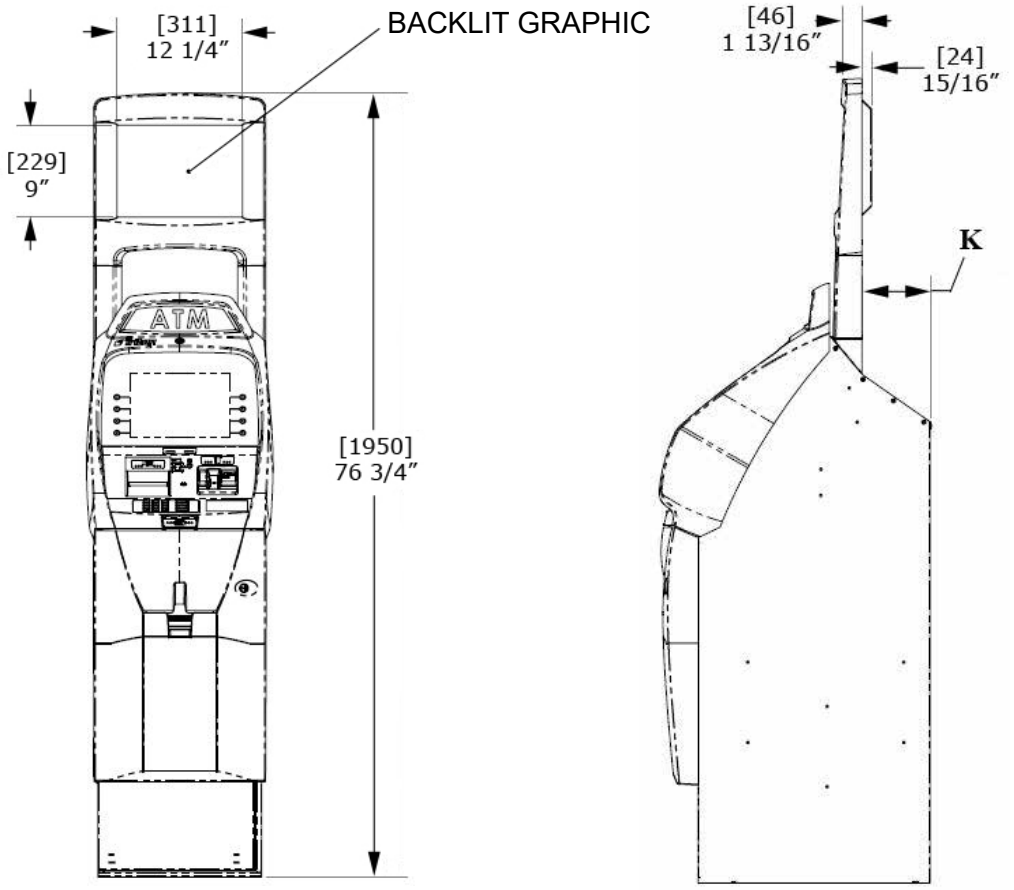
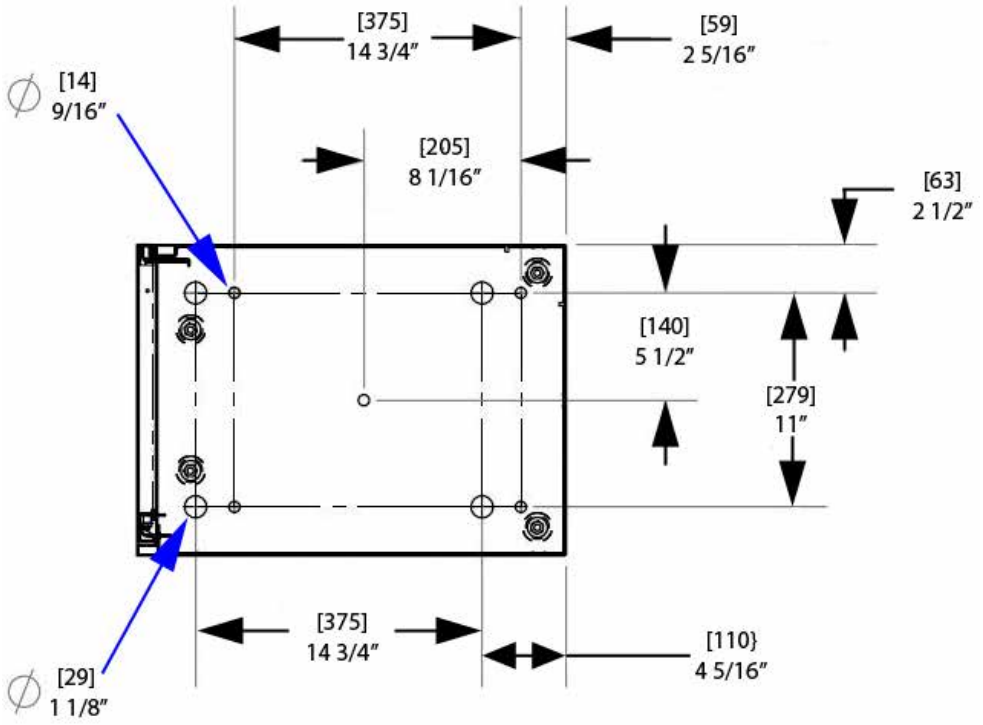
Deep Cabinet Topper

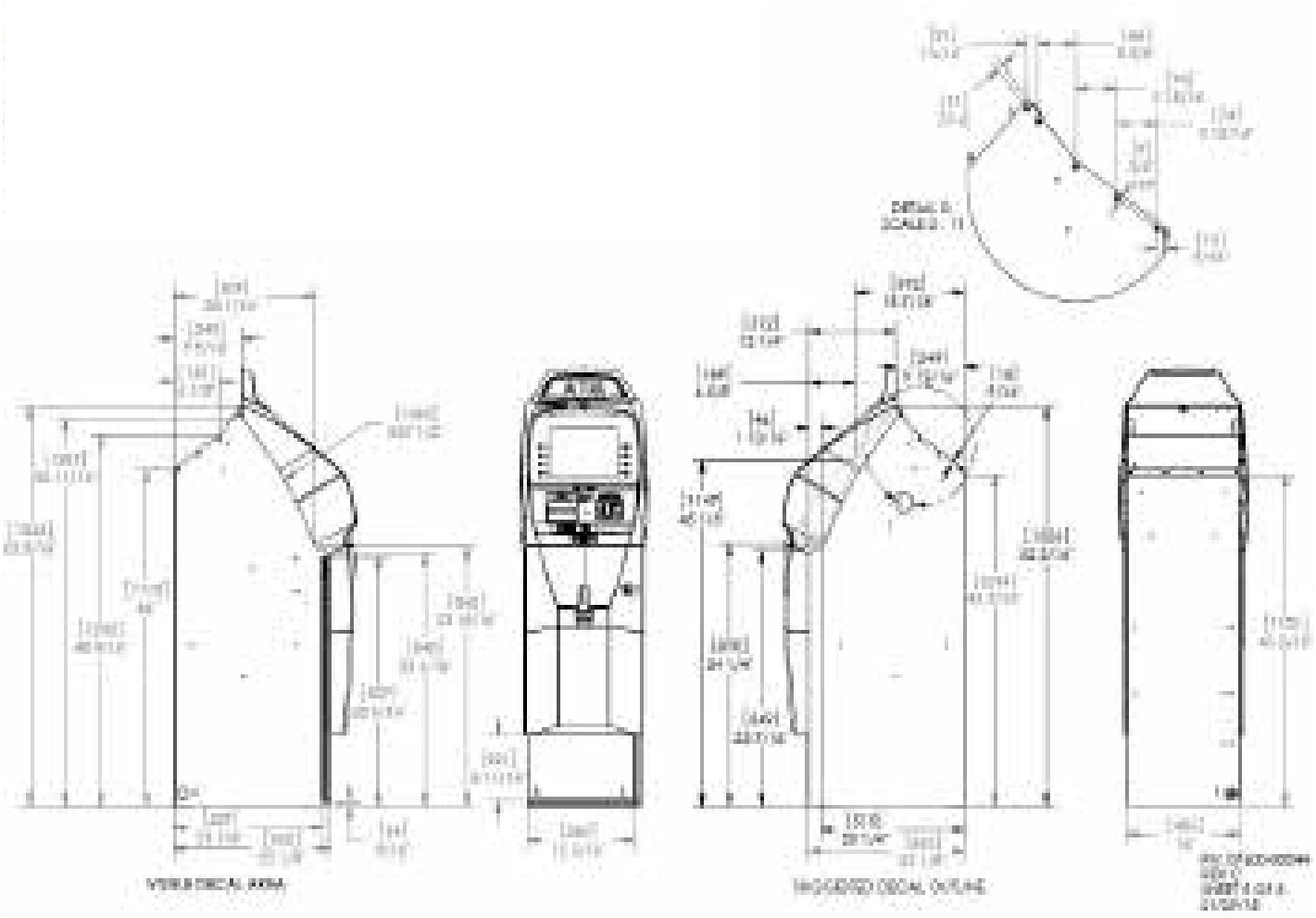


Dimension	Business Hours	Vault (Lvl 1)
K	6 9/16" [167]	7 1/16" [179]

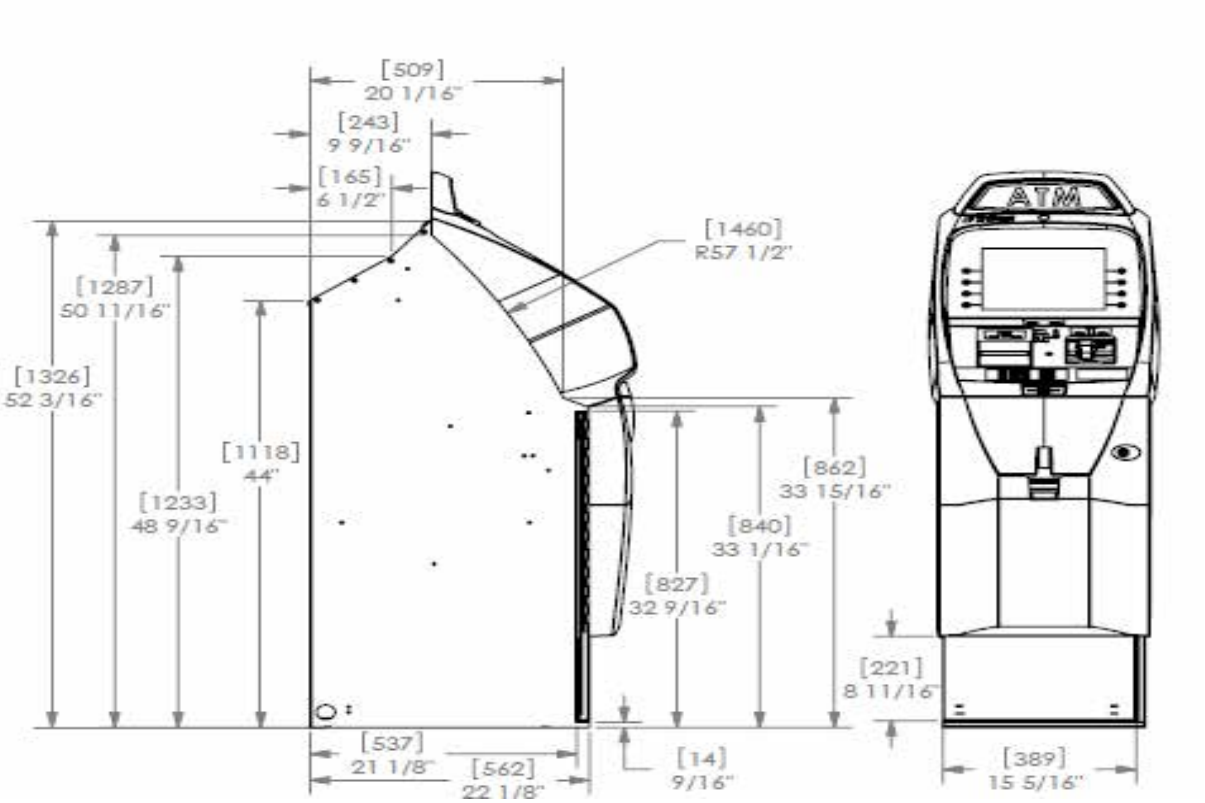
Deep Cabinet "Footprint"



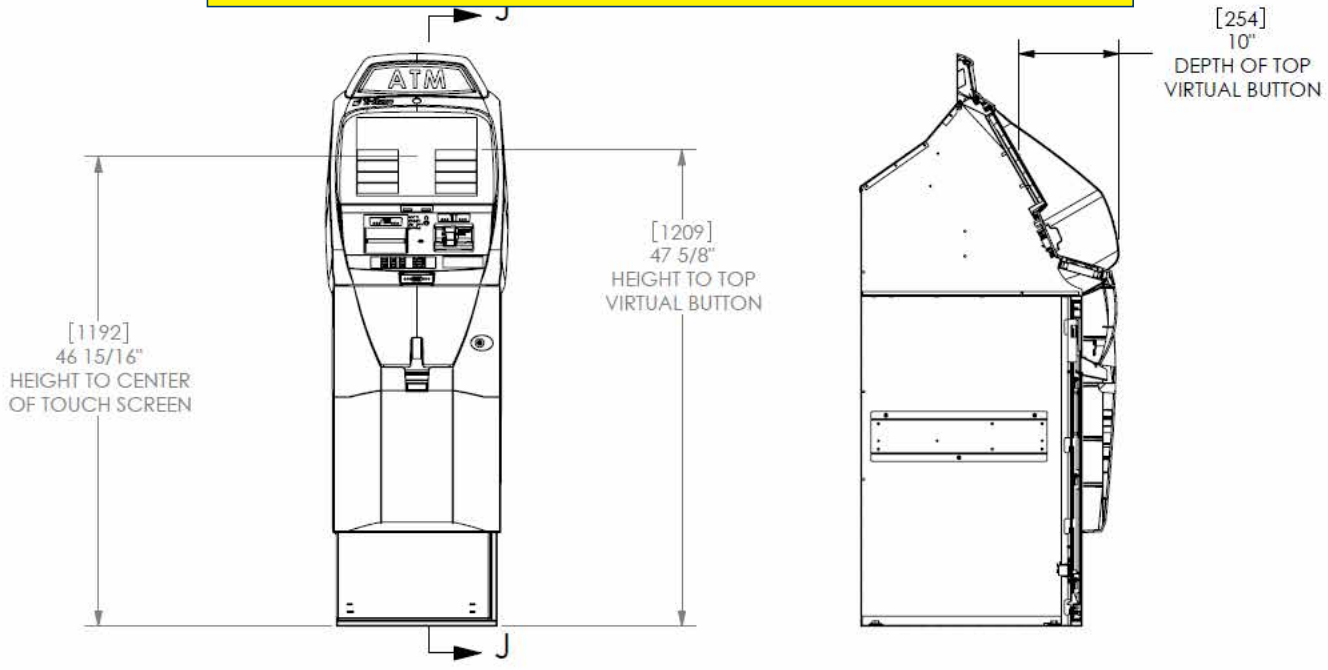
DEEP CABINET DECAL AREA (BUSINESS HOURS)



VISIBLE DECAL AREA



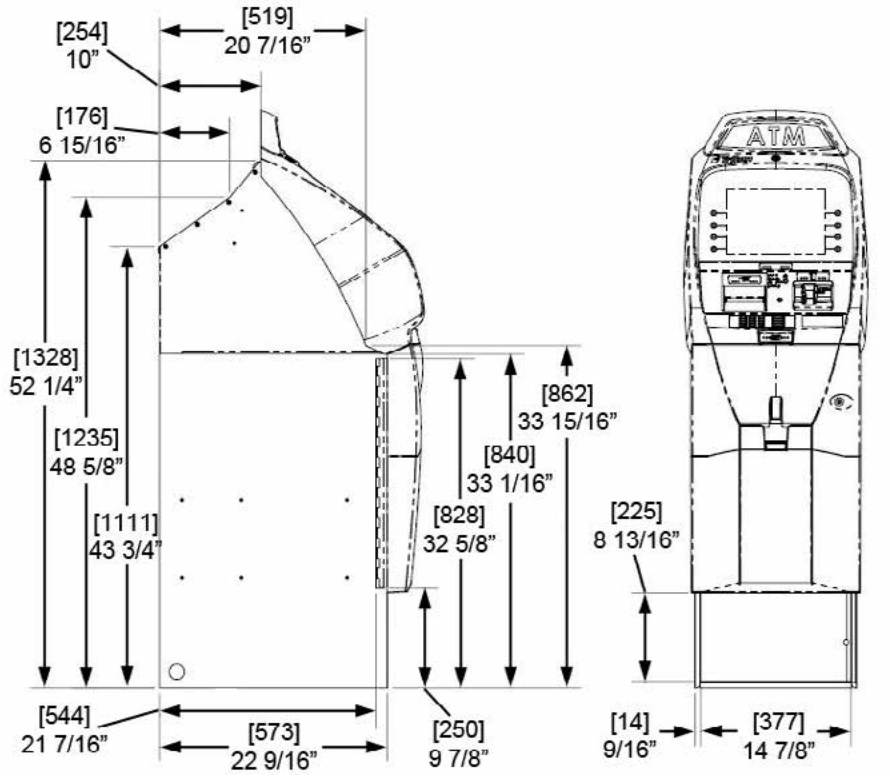
TRITON MODEL ARGO 15 INCH DISPLAY



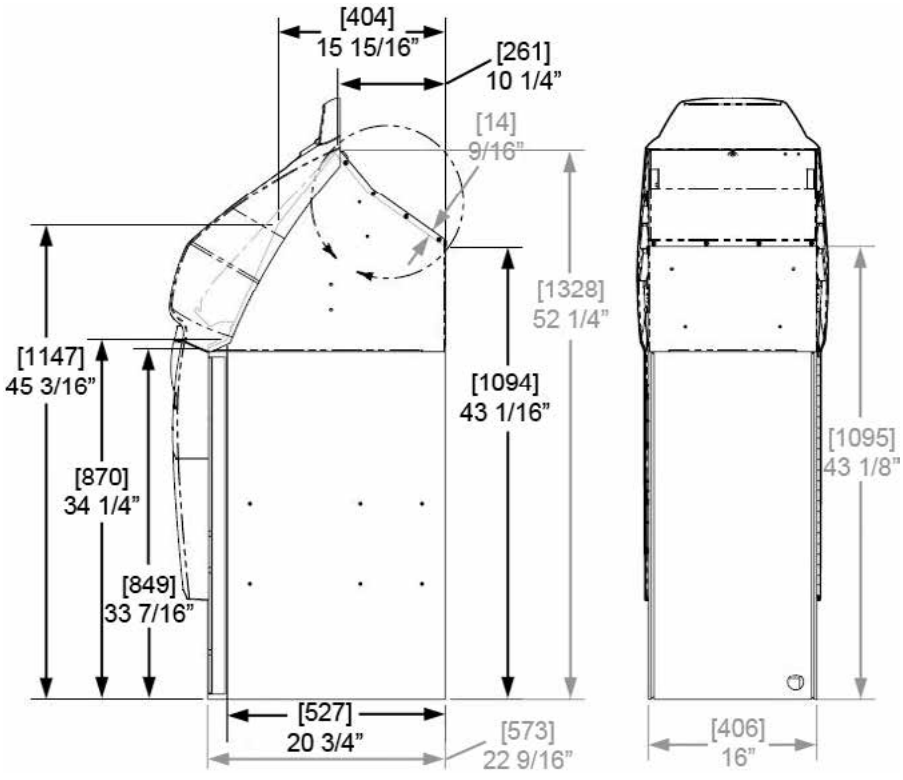
SUGGESTED DECAL AREA

SECTION J-J
SCALE 1 : 11

DEEP CABINET DECAL AREA (VAULT)

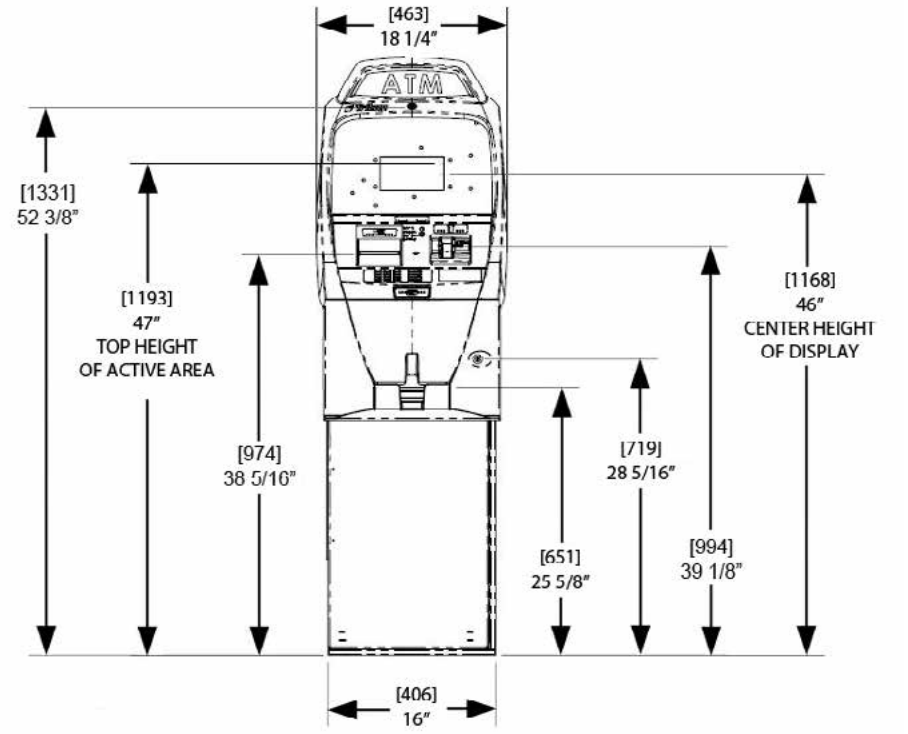


VISIBLE DECAL AREA



SUGGESTED DECAL AREA

Shallow Cabinet Front View



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Shallow Cabinet Service Area Dimensions

2" [51] clearance around cabinet sides and rear

Dimensions Shown in inches/millimeters	
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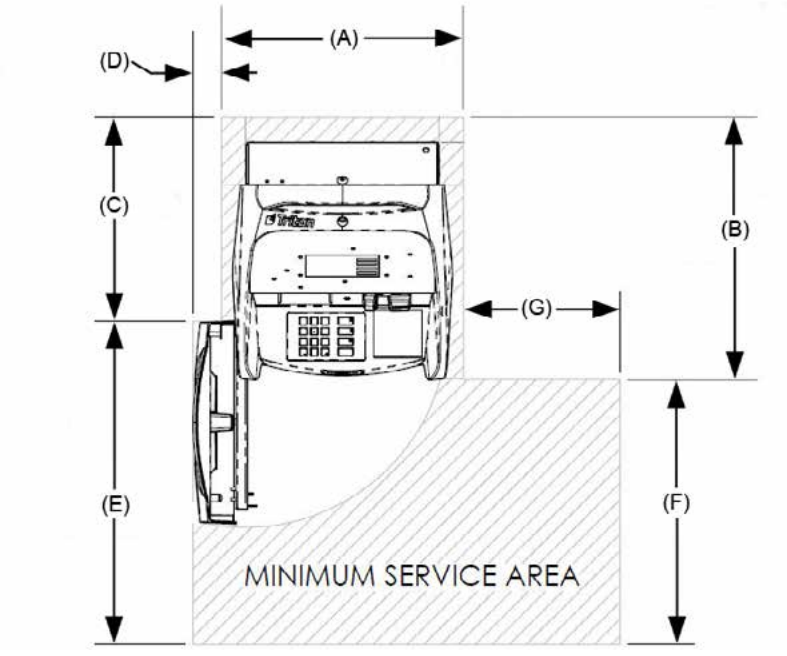
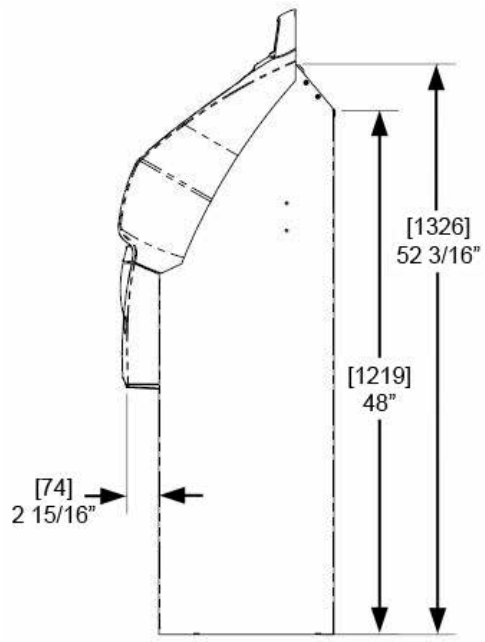


SHALLOW CABINET DIMENSIONS (BUSINESS HOURS)

SIDE VIEWS



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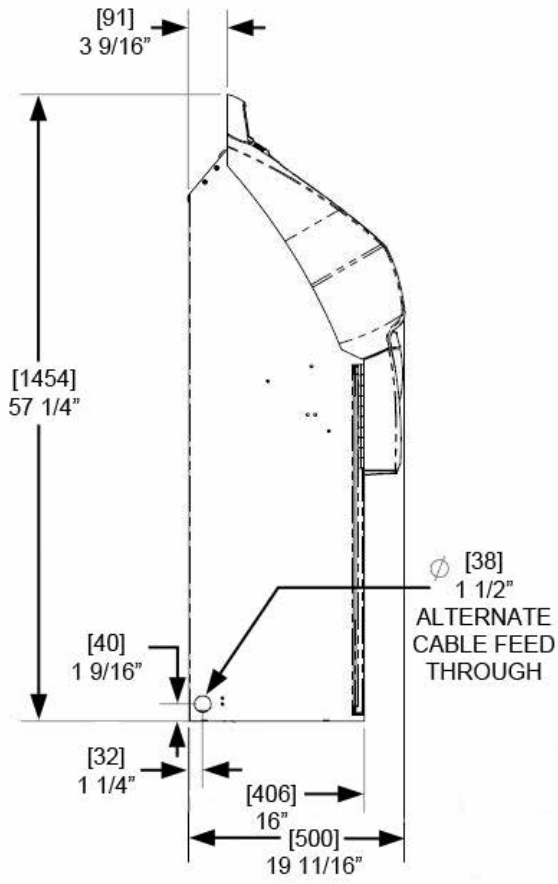

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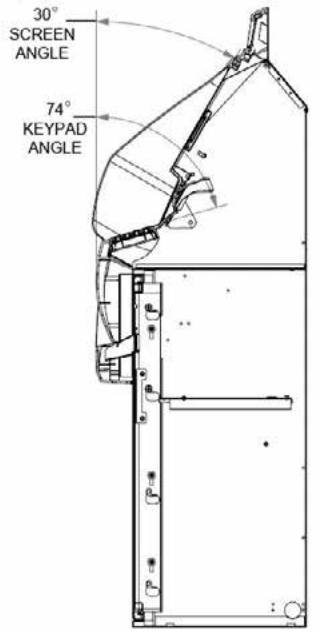

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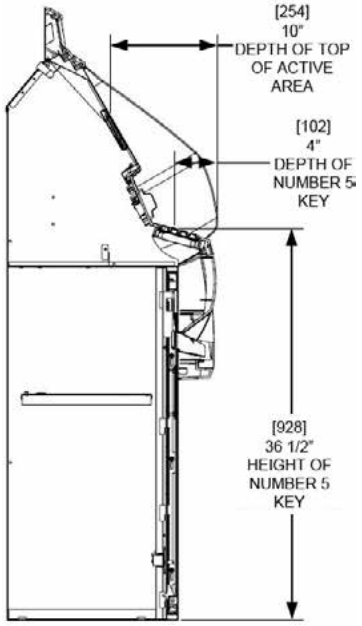

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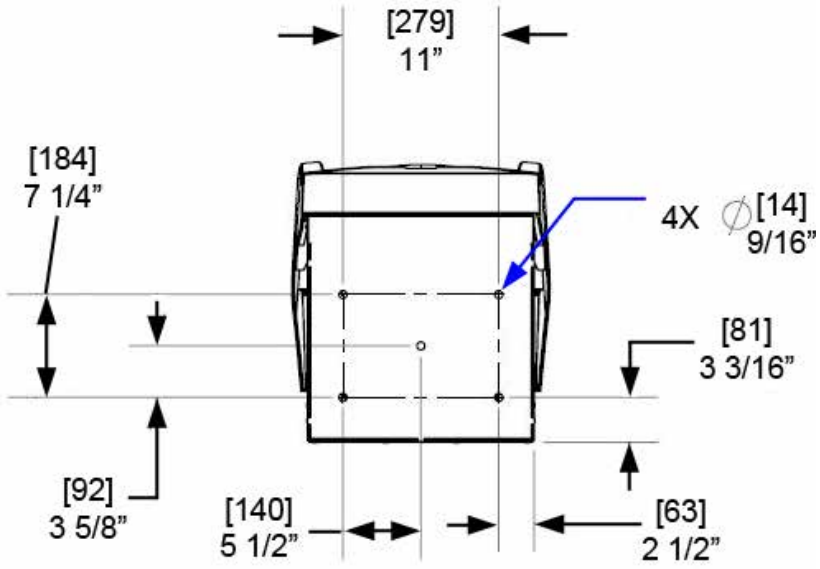
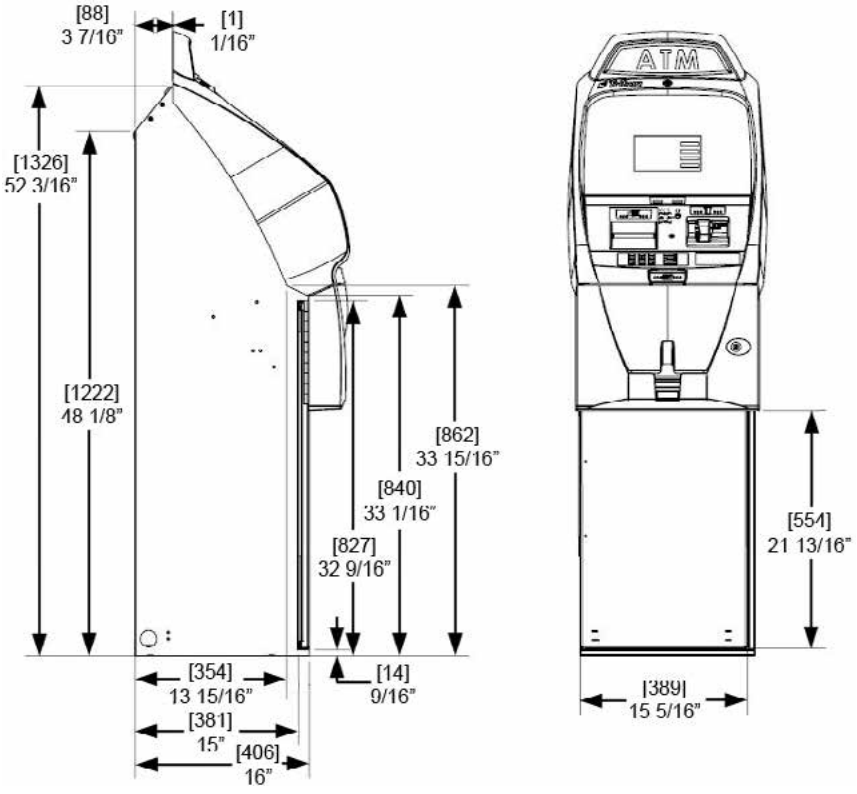
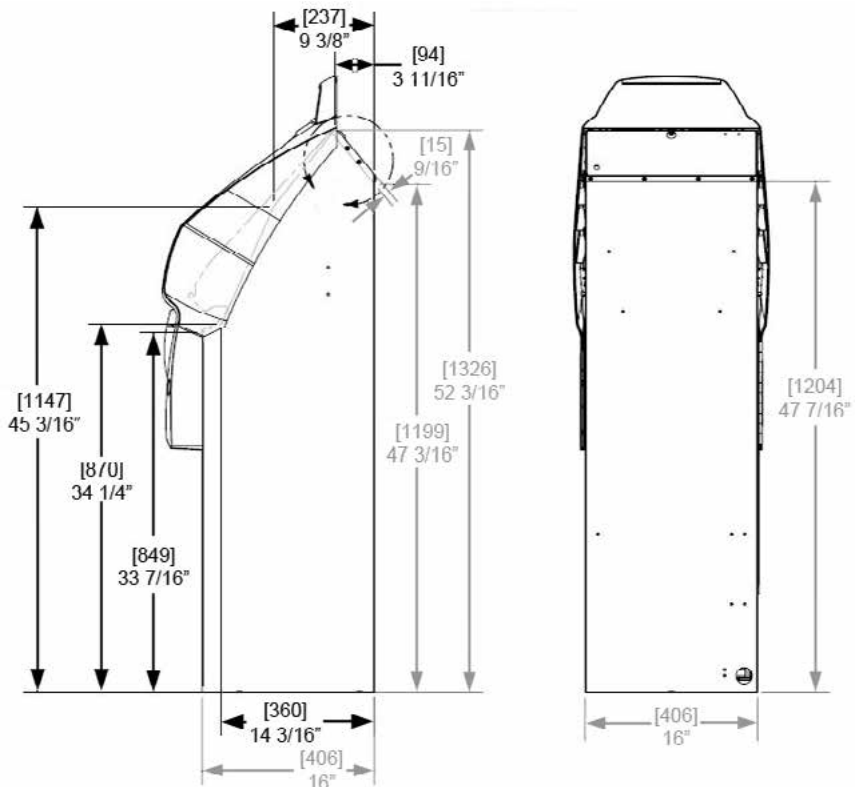
SHALLOW CABINET "FOOTPRINT"



SHALLOW CABINET DECAL AREA (BUSINESS HOURS)



VISIBLE DECAL AREA



SUGGESTED DECAL AREA

REPLACING OLDER UNITS

When replacing older Triton ATMs with the ARGO, you may be able to use holes already drilled to install the ATM. See the table below for corresponding hole sites.

SHALLOW CABINET ARGO	DEEP CABINET ARGO
• 91xx • 9705-9710 (shallow version) • RL2000 (shallow version) • RL1600	• 9100 with SDD (deep version) • 9700-9750 (deep version) • RL5000 • RL2000 (deep version)

Cabinet Installation

The following procedure applies to installing the cabinet assembly using the standard (P/N 06200-00066) anchor kit. The anchor kit **is not** supplied with the unit. Call Triton at 888-7-ATMGURUS for availability.

*** IMPORTANT ***
The ARGO ATM is designed for INDOOR use only!

****WARNING****
DO NOT APPLY POWER TO THIS TERMINAL UNTIL THE INSTALLATION IS COMPLETE!!

Unpack ATM

1. Carefully inspect the shipping container for any 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. Remove the ATM cabinet from the carton by cutting the straps and removing the top of the box.

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

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

5. Remove the remainder of the box from the ATM if necessary.

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. Lift the handle under the bill chute to open the front enclosure door. If the door is locked, see the sidebar on this page for help in unlocking the electronic or mechanical lock, if applicable.

9. Remove the packing material from inside the vault enclosure and the control panel area.

10. The accessory box is shipped inside the cabinet enclosure. Open and inspect the contents. Check the contents against the enclosed packing list and report any missing parts to Triton.

11. Unbolt the ATM from the shipping pallet. Walk the ATM off of the pallet using caution. The ATM is heavy.

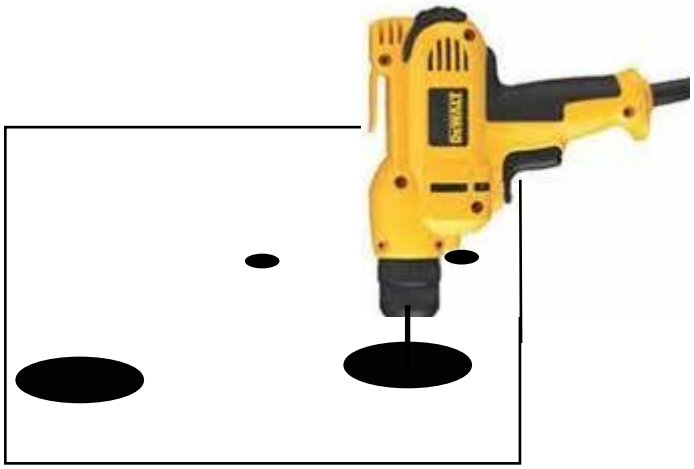
Mark/Drill Mounting Holes

Mark the location of the cabinet mounting holes on the concrete floor. This is accomplished as described below:

1. Move the ATM to the location where it will be installed.

   Open the cabinet vault door at least 90° to improve access. Locate the four (4) anchor-bolt holes in the bottom of the cabinet (each corner). Use a felt-tip pen or other marker to carefully mark the center of each of the four corner 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. Center punch each mark to help align the drill bit.

2. Use a 1/4" [6 mm] 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" [12 mm] deep into the floor. These holes will help guide the masonry bit that will be used to drill the anchor-bolt holes in the next step.

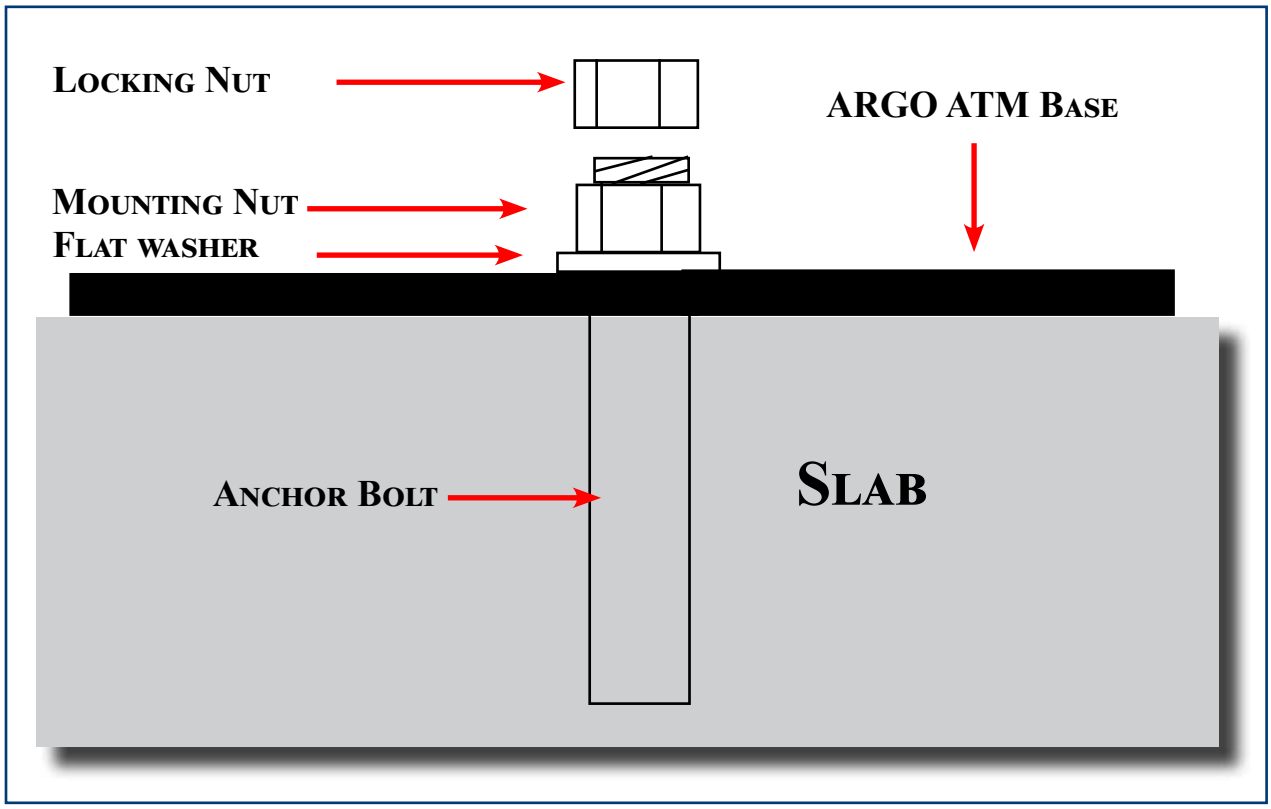


3. **Standard anchors:** Use a **1/2" [13mm]** diameter carbide-tipped masonry bit to drill four holes at least **2-3/4" [70mm]** deep into the floor. Be sure to take into account the depth of any floor covering, such as tile or vinyl when gauging the depth of the anchor holes. Make sure the holes are drilled at least 2- 3/4" [70mm] into the concrete floor. (See *Install Standard Anchors/Bolt ATM to Floor* on next page.)

4. **Hole Diameter:** Ensure the holes drilled are not too large in diameter. Test fit the anchor bolts by hand. They should require hammering, **NOT NOW,** and not fall into the hole. Its easier to drill the holes larger now if necessary, than have to move the cabinet and redrill later because they are too big. **DO NOT** be tempted to install the anchors now. It is **VERY** difficult to position the terminal onto the anchors because of the weight.

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

Install Standard Anchors/ Bolt ATM to Floor



Anchor bolt installation illustration

Anchor Bolt

1. Ensure the mounting location is free of all debris that might cause the cabinet to not be level. Use blower or vaccuum to remove any dust or particles.

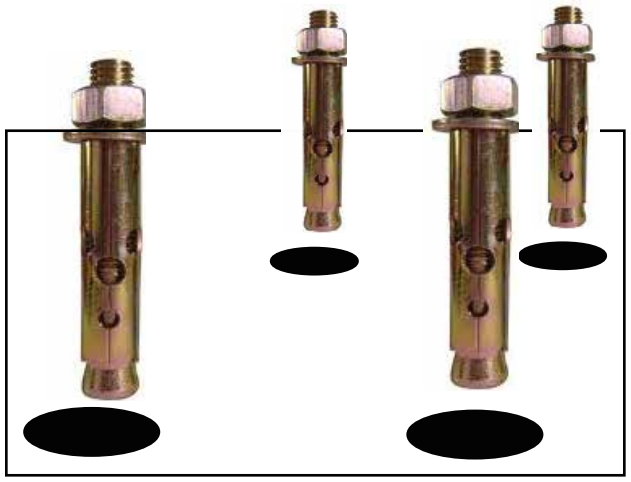
2. Move the ATM into position for mounting by aligning the base over the four holes drilled in the previous procedure.

3. 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 being tapped in, the hole is too large! Move the mounting hole pattern and redrill using smaller holes as necessary to achieve a snug fit.

4. Place a flat washer on the anchor bolt followed by a 1/2" (13mm) nut. Do not tighten fully, allow for leveling.

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



Use anchor bolt in each mounting hole

Hammer bolts snuggly into drilled holes

6. 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.

7. Use a torque wrench and 3/4" [19mm] socket to tighten each nut to ***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 3/4" [19mm] socket to tighten the nuts ***three full turns beyond hand tight***. DO NOT overtighten.

8. Once the nuts are tightened as specified in Step 7, ***install a second nut on each bolt, to act as a jam nut, and tighten down firmly***.

Route AC Power and Communication Cable

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

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. Extension cords are not recommended.

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 phase-to-phase voltage not exceeding 120 or 240 volts.

3. The outlet is easily accessible and will not be blocked once the equipment is installed and anchored.

1. Route the AC power cord and the phone (or Cat-5) cable through either the main or alternate cable access hole at rear corner of unit, (as applicable).

2. Connect the AC power cord and communication cable to their respective facility outlets.

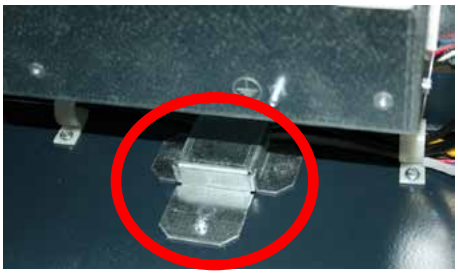
3. Secure/plug the unused access hole with the grommet or plug provided.

4. Install the security bracket. This new feature introduced with the ARGO prevents both people and rodents from accessing the dispenser and internal wiring through the holes at the bottom of the cabinet. The bracket and four (4) nuts are found packaged in the accessory bag that is shipped with the ARGO.

   Fit the bracket on the fixed bolts, then use an 11/32" driver to tighten the nuts.

Route wiring and communication harnesses through openings in bottom rear of cabinet and to power supply.

Attach security bracket to lower left corner of cablinet as shown.



The ARGO unit has an additonal security feature with the additon of a special bracket between the upper and lower cabinets to secure cables and wiring running between the cabinets. This is already installed on the ARGO from the factory. One must have access to **both** the upper and lower cabinets in order to add or remove cables/ wiring. The bracket has a top screw and three fixed bolts underneath. Unscrew the screw and three nuts to release the bracket.

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.

POWER SUPPLY CORD SPECIFICATIONS

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

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.

REFER TO THE USER MANUAL AND CONFIGURATION MANUAL FOR OPERATIONAL INSTRUCTIONS.

NOTE: IT MAY TAKE UP TO 30 SECONDS FOR THE DISPLAY TO ILLUMINATE, AND ANOTHER 15 SECONDS FOR THE OPERATING SYSTEM TO LOAD.