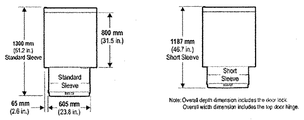
NCR SelfServ 34 ATM BAC Site Preparation Datasheet

Walk-up version based on the BAC standard configuration as of August 2011

This Site Preparation Datasheet is to be used in conjunction with the following documents:
NCR SelfServ 34 ATM Site Preparation (B006-6566)
NCR SelfServ 34 Installation Guide (B006-6590)
NCR SelfServ 32, 34 and 38 ATMs Site Preparation Requirements (B006-6678)

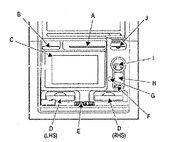
ATM DIMENSIONS

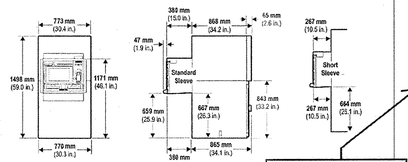


Note: Overall depth dimension includes the door lock.
Overall width dimension includes the top door hinge.

Package Dimensions

	ATM and Pallet	ATM, Pallet and Carton
Height	1782 mm (87.0 in.)	1836 mm (72.3 in)
Width	977 mm (38.5 in.)	
Length	140.5 mm (55.3 in.)	





Floor Loading

	CEN Grade L
Maximum weight	870 kg (1956 lb.)
Floor Loading	1420 kg/m²(292 lb./ft.²)

NCR Highest Operable Point (HOP) is the Cheque Entry. Refer to: *NCR_ADA 2010_ATM Housing Solutions 012712.xls* for the proper 2010 ADA Equipment HOP Height.

Site Conditions will affect actual heights. Please reference the "Hole In the Wall Dimensions" section on page 2 of this document for more details.

ACCESS FOR ALL

		Height (from base of ATM)	Depth (from front of collar)	Distance from No. 5 Key	Clock Face Position (relative to No.5 Key)
		Height and Depth to Main Facia Items		Facia Item Locations for Voice Guidance	
A	Statement Exit or Passbook Entry and Exit	1079 mm (42.5 in.)	287 mm (8.1 in.)	378 mm (14.9 in.)	12
B	Cheque Entry	1060 mm (42.1 in.)	147 mm (5.8 in.)	426 mm (16.8 in.)	11
C	381 mm (15.0 in.) Touchscreen Display	1023 mm (40.6 in.)	220 mm (8.7 in.)	N/A	N/A
D	Cash Exit or Entry	749 mm (29.5 in.)	99 mm (3.9 in.)	144 mm (5.7 in.) LHS	9
E	No. 5 Key	714 mm(28.1 in.)	42 mm (1.7 in.)	N/A	N/A
F	Audio Jack Plug	624 mm (24.6 in.)	61 mm (2.2 in.)	264 mm (10.4 in.)	2
G	Camera	874 mm (34.4 in.)	83 mm (3.3 in.)	N/A	N/A
H	Contactless Card Reader	693 mm (34.8 in.)	68 mm (2.7 in.)	296 mm (11.7 in.)	2
I	Card Reader	958 mm (37.7 in.)	87 mm (3.4 in.)	355 mm (14.0 in.)	1
J	Receipt	1079 mm (42.5 in.)	117 mm (4.5 in.)	446 mm (18.3 in.)	1

POWER REQUIREMENTS

Voltage transients, line noise, surges, sags, impulses, and spikes may be experienced routinely or sporadically. When such phenomena occur, the use of protective devices may be required to ensure proper operation of the equipment.

AC Power Requirements
The maximum current requirements at the stated input voltages are:
• The ATM is rated at 10A, 120V. Bank of America guidelines recommend 20A at 120V individual Branch Circuit with isolated ground, for its installations.
The maximum inrush current is 100A

Input Voltage Setting
The ATM can operate from the following input mains voltages:
• 90V to 136V at 50/60Hz

Power Cable
The ATM is supplied as a 120V unit.
120V ATMs are supplied with a power cable fitted with a NEMA type 5-15P power source connector.

Information about suitable power connectors is supplied with the accessories.
The power cable supplied is 3 m (9.8 ft) in length. If it is necessary to increase this length to meet site requirements, then the extension must satisfy local or country regulations.

WARNING
This equipment must be grounded (earthed) and labeled for the ATM. Ground needs to be isolated, and dedicated (not shared with another device).

Grounding Requirements
The ATM operates from a single phase, 3 wire supply, live, neutral and ground.
The power requirements of this unit will normally permit it to operate within existing wiring configurations and from existing branch mains outlets providing:

1. Where the supply is provided from a general purpose distribution panel, then the other branch circuits from this panel must not be used to support heavy inductive loads such as air conditioners, elevators, microwave ovens, and so on. Nor may such equipment be operated on the same branch circuit as the ATM.
2. If using distribution panels, all branch circuit grounding conductors must be connected to an insulated terminal strip in the distribution panel. The grounding conductor from the distribution panel to the building ground point must be at least equal in size to the power conductor necessary to supply the NCR system.

Note: The building ground point can affect data integrity.
For additional information, refer to the Data Line Transient Protection section in the publication 'NCR SelfServ 32, 34 and 38 ATMs Site Preparation Requirements'.

INSTALLATION CATEGORIES

The physical installation of the ATM is divided into four categories.

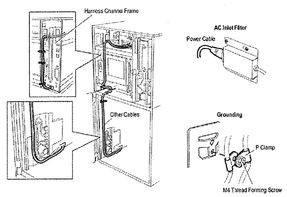
1. **A new installation of a SelfServ 34 walk-up ATM at the 2010 US ADA Height Guidelines.**
2. **An installation where a SelfServ 34 walk-up ATM replaces a 5886 walk-up ATM at the 2010 US ADA Height Guidelines.**
   The plinth must be replaced with a new one to position the SelfServ 34 keyboard at the 2010 US ADA Height Guidelines.
   This category also includes a replacement of a 5684 or a 5081 at the 2010 US ADA Height Guidelines.
3. **A new installation of a SelfServ 34 walk-up ATM at the Standard height.**
   This height does not comply with the regulations listed in the "2010 US ADA Height Guidelines" section.
4. **An installation where a SelfServ 34 walk-up ATM replaces a 5886 walk-up ATM at the Standard height.**
   This height does not comply with the regulations listed in the "2010 US ADA Height Guidelines" section.
   The plinth must be replaced with a new one to position the SelfServ 34 keyboard at the optimum height.

Installing Through a Glass Wall
If you are installing your ATM through a glass wall you may require a suitable glass support (normally a steel collar) to sit between the ATM collar and the glass.
The requirement for this support should be determined by the architect. If required, any such support should be sourced locally.

State of California
For installations in the State of California, please consult your Project Manager.

CONNECTING THE CABLES

Because there is a limited side clearance when the ATM is being installed within a minimum footprint clearance area, cable connections must be carried out before the unit is moved into its final location.
Cables must be grounded to make sure that the ATM meets EMC requirements.
Make sure that the power supply cable is not connected to the AC outlet while you are connecting it to the ATM.

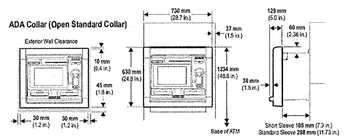


COLLAR DIMENSIONS AND CLEARANCE

Collar Tolerance
The wall and floor need to be smooth and even as the collar has a tolerance of +/- 4 mm (0.2 in. (+/- 0.5")) at the top and bottom, with 0 mm (0.0 in. (0")) at its centre.
Note: The collar cannot accommodate large clips or depressions in the wall.

Minimum clear wall area required around collars for installing and servicing the ATM.

ADA Collar (Open Standard Collar)



ENVIRONMENTAL REQUIREMENTS

Temperature and Humidity

	Normal Operating Range		
	Interior Environment	Exterior Environment	
	Lobby & Through-the-Wall ATMs	Through-the-Wall ATMs	Freestanding Drive-Up ATMs
Temperature (dry bulb)	10°C to 40°C (50°F to 104°F) See Note 1.	-30°C to 50°C (-31°F to 122°F) See Note 3.	Without air conditioning -30°C to 45°C (-31°F to 113°F) With air conditioning -30°C to 50°C (-31°F to 122°F)
Relative humidity	20% to 80% See Note 2.	15% to 100% See Note 3.	15% to 100%
Dew point temperature restriction	26°C (79°F) max.	26°C (79°F) max.	26°C (79°F) max.

Note 1: If severe environment is fitted, the minimum temperature is 0°C (32°F).
Note 2: For Through-the-Wall ATMs, the humidity inside the building is restricted to a maximum of 30% at an outside temperature of -30°C (-31°F), with a linear relationship between temperature and humidity to a maximum humidity of 0°C (32°F).

Barometric Pressure

Operating and transit limits	105 kPa (12.2 lb. Fin.) to 70 kPa (10.2 lb. Fin.)
Equivalent altitude	Up to a maximum of 3000 m (9842.52 ft).

ATM installation through an exterior wall must meet the requirements of both the Interior and Exterior (through the wall) environments.

	Storage Range (Up To Three Months)	Transit Range (Up To One Week)	Extreme Power On Range (Up To One Hour)
Temperature	-10°C to 50°C (14°F to 122°F)	-40°C to 60°C (-40°F to 140°F)	0°C to 45°C (32°F to 113°F)
Relative Humidity	10% to 90%	5% to 95%	10% to 95%

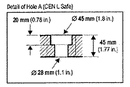
BOLT HOLE LOCATIONS

Security Bolts
The ATM should be bolted to the floor or plinth, through the 'A' holes, using four bolts with anchor washers.
The floor or plinth must be capable of withstanding the loading imposed by the anchor points for the bolts.
The bolts and anchors must be supplied by the owning organisation.

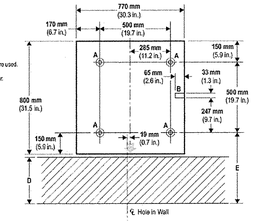
If an adjustable plinth is used, it must be bolted to the floor.

The minimum specification for bolts, to secure the ATM to a concrete floor, is high tensile M10 (3/8 in.) bolts with appropriate anchor washers of 6 mm (0.2 in.) minimum thickness.
It is recommended that these bolts be a minimum depth of 150 mm (5.9 in.) and that either resin anchor bolts or rawl type bolts are used.
Note 1: Bolting of CEN security enclosures should comply with the requirements of EN 1143-1 (CEN Safe Burglary Standard).
Note 2: For CEN III security enclosures, the centre bolt hole 'B' in the floor is counterbored to a larger diameter than the other four.
This enables a locally sourced security alarm sensor to be fitted through the hole.

Detail of Hole A (CEN L Safe)

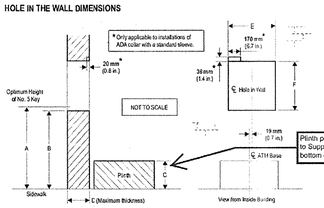


ADA Collar	Short Sleeve	Standard Sleeve
D	178 mm (7.0 in.)	292 mm (11.5 in.)
E	330 mm (13.0 in.)	450 mm (17.7 in.)



Note 1: The boundary marked with a 'B' shows the cable access bolts for all cabinets.

HOLE IN THE WALL DIMENSIONS



Plinth provided by NCR. Refer to Support Plinth Options at bottom of this page.

New Hole In the Wall (2010 US ADA & Standard Heights)
It is the responsibility of the owning institution to ensure that the heights from the sidewalk level to the facia items comply with any local regulations.

Note 1: An ADA collar is recommended at installation.
Note 2: The height of the plinth dependsupon the difference in height between the sidewalk and the interior floor.
Where is no difference, the plinth must have the height that is specified in the table.

Standard and Existing 5886 Hole at 2010 US ADA Height Guidelines
The existing plinth must be replaced with a new one.

	2010 US ADA Height Installations		Standard Height Installations	
	New Hole	Existing 5886 Hole	New Hole	Existing 5886 Hole
A	832 mm (33.5 in.)	832 mm (33.5 in.)	1005 mm (39.6 in.)	1005 mm (39.6 in.)
B	762mm (30.0 in.)	736 mm (29.0 in.)	914 mm (36.0 in.)	940 mm (37.4 in.)
C	138 mm (5.4 in.)	138 mm (5.4 in.)	291 mm (11.5 in.)	291 mm (11.5 in.)

Plinth Option	Height Ranges
7949-K566-V001	Variative height - 100mm (3.94in) to 202mm (7.95in)
7949-K625-V001	Variative height - 202mm (7.95in) to 380mm (14.96in)

Refer to: *NCR_ADA 2010_ATM Housing Solutions 012712.xls* for the proper Bottom of Rough Opening Height. (Disregard Existing 5886 Hole modifications.

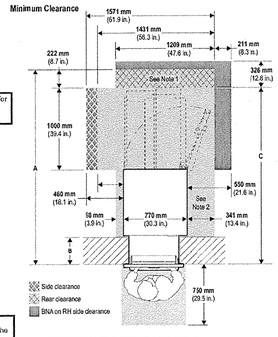
HOP Height may vary depending on Surround Product used.

	New Hole at 2010 US ADA Height		Existing 5886 Hole at 2010 US ADA Height		New Hole at Standard Height		Existing 5886 Hole at Standard Height	
	ADA Collar		ADA Collar		ADA Collar		ADA Collar	
	Standard Sleeve	Short Sleeve	Standard Sleeve	Short Sleeve	Standard Sleeve	Short Sleeve	Standard Sleeve	Short Sleeve
D	292 mm (11.5 in.)	178 mm (7.0 in.)	292 mm (11.5 in.)	178 mm (7.0 in.)	292 mm (11.5 in.)	178 mm (7.0 in.)	292 mm (11.5 in.)	178 mm (7.0 in.)
E	660 mm (26.0 in.)		610 mm (24.0 in.)	660 mm (26.0 in.)	660 mm (26.0 in.)		610 mm (24.0 in.)	625 mm (24.6 in.)
F	584 mm (23.0 in.)		518 mm (20.4 in.)		584 mm (23.0 in.)		518 mm (20.4 in.)	

SERVICE CLEARANCES (Typical LH BNA + RH Disp Config)

Important Notice to Users. If it is likely that the ATM will be upgraded with new modules as they become available, you should use the optimum clearances.

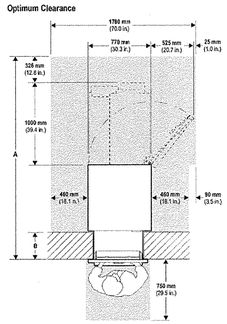
Minimum Clearance



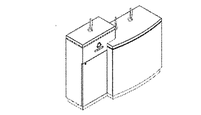
Note 1: Rear clearance should be used when upgrading to any cash recycler.
However, if this space is not available then upgrade time will increase by approximately four hours.
Note 2: When replacing a 5886 with a SelfServ 34, 35 mm (1.4 in.) extra space is gained on the right hand side because the SelfServ 34 is smaller.

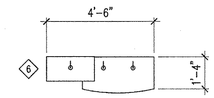
ADA Collar	Short Sleeve	Standard Sleeve
A	2210 mm (87.0 in.)	2323 mm (91.5 in.)
B	178 mm (7.0 in.)	292 mm (11.5 in.)
C	1988 mm (78.3 in.)	2101 mm (82.7 in.)

Optimum Clearance



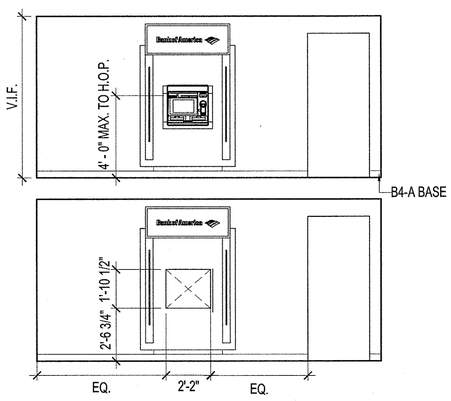
ADA Collar	Short Sleeve	Standard Sleeve
A	2314 mm (91.1 in.)	2427 mm (95.6 in.)
B	178 mm (7.0 in.)	292 mm (11.5 in.)



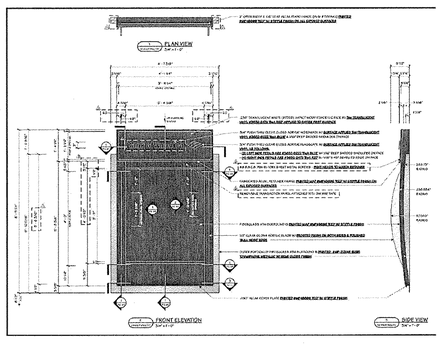


B ATM VESTIBULE CHECK DESK

CHECK DESKS 1
SCALE: N.T.S.



ATM WALL ELEVATIONS 2
SCALE: 1/8" = 1'-0"



SUR-WING SURROUND 3
SCALE: NTS

KEY NOTES

SHEET NOTES

1. GC SHALL PROVIDE ALL WORK RELATED TO ENGINEERING TO INCLUDE, BUT NOT LIMITED TO: STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, FIRE PROTECTION & LIFE SAFETY. GC SHALL PROVIDE DESIGN DRAWINGS, PERMITS & INSTALLATION OF SYSTEMS ON A DESIGN BUILD BASIS

CITY OF PORTLAND, MAINE — RESURGAM
Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 07/13/15

Bank of Ameri ATM Installation

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Gensler

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Boston, MA 02108
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△	Issue	Date & Issue Description	By	Check
	1	06/03/2015	DG	JR
		ISSUED FOR BID AND PERMIT		

Seal/Signature

LICENSED ARCHITECT
KENNETH I. FISHER
No. 3181
STATE OF MAINE

Project Name
BANK OF AMERICA
ATM INSTALLATION

Project Number
11.6563.084

CAD File Name
A12-01

Description
NCR DETAILS

Scale
0 3" 6" 1'

A12.01

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