

# ABE Keypad Installation

## ABE KEYPAD INSTALLATION

### TASK

To remain ADA compliant, we are installing keypads in kiosks to assist visually-impaired customers in the rental process.

This document provides step-by-step instructions on how to install the keypad.

### AUDIENCE

FSR2, ROS

### PROCEDURE STEPS

For a video installation guide - [Click Here](#)

#### 1. Required Tools

## **Miscellaneous**

Headphones

Kiosk Doorstop (from toolbag)

Zip Ties (from toolbag)

Masking Tape

Diagonal Cutters (from toolbag)

Corded Electric Drill

Earplugs

Lubricating Oil

## **ABE Toolkit**

Safety Glasses

Center Punch

1" Drill Bit

¼" Drill Bit

5/32" Drill Bit

Rivets

Nut Driver

Deburring Tool

ABE Installation Template Bracket Gloves

Magnets

## **ABE Keypad**

Zip Ties

Rubber Grommet

Audio Cable

USB Cable

Nuts – Nylon Insert, Lock, M3 X 0.5mm

Washers – Flat, M3, 8mm OD, Nylon Ground Wire

ABE Keypad

Rubber Insert

## **2. Installation**

Plug the provided Audio Cable into the keypad's Audio Out port and plug the other end into your phone.

Test the keypad by inserting headphones into the headphone jack on the front of the keypad and playing audio on your phone.

Plug the keypad into the kiosk PC through a USB port and test the keypad's buttons by logging into the kiosk and opening Notepad.

Press each button on the keypad and verify the kiosk is receiving your input through Notepad.

The output for each button should be as follows:

Each numeric button will provide the output of its respective number value.

Minus button = -

Plus button = +

Blue button = tab

Yellow button = backspace

Red button = C

Green button = return

Take the smaller end of the ground wire and

place it around the screw on the back of the ABE keypad.

Use the shakeproof washer, and nut in that order to secure the wire.

Tighten with your nut driver.

Power the kiosk down & use masking tape to cover the back of the kiosk door where the keypad will be installed. Use a door stop to keep the kiosk door propped open.

It is recommended to place a piece of cardboard at the base of the kiosk to catch any metal shavings from the door.

Align the ABE installation template bracket to the kiosk door with the magnets.

Once aligned, tape both the bracket and magnets down with masking tape to ensure the bracket will not become misaligned during drilling.

Take the center punch and punch a hole into the top-left hole in the template.



When you hear the center punch click while you push in, you'll know that the hole was made successfully.

Put on your gloves, earbuds, and safety glasses, and then place 2-3 drops of lubricating oil on the tip of the 5/32" drill bit and drill through the kiosk door where you made the hole. You will want to apply the oil to the drill bit every time the drill is used. Make sure to wear both the glasses and gloves throughout the drilling process.

Insert one of the provided rivets into the drilled hole.

Repeat the process of hole-punching, drilling,

and rivet-inserting for the bottom-right hole so both rivets are positioned diagonally.

Continue using the center punch and 5/32" drill bit to drill through the three remaining holes in the template. Then remove the tape and template from the kiosk

door.

Lubricate and use the 1/4" drill bit to drill through the lower center hole made.

Then, switch to the 1" step drill bit, lubricate it, and drill with it to finish the hole needed for the cables to go through once the keypad is mounted.

Use the deburring tool to smooth out all drilled holes/edges and

use tape to remove any metal shaving residue from both sides of the door.

Make sure to use the tool on both sides of the door.

Insert the rubber grommet and then feed the keypad cables through it.

Once the cables are fed through, mount the keypad to the kiosk door.

\*Prior to mounting the keypad, confirm the rubber gasket on the back of the keypad is applied correctly around the edge of the keypad.

Tighten nuts to the back of the kiosk door to finish mounting the keypad to the door.

The keypad should be completely flush with the door once mounted.

Attach the ground wire to the ground lug on the door under the existing nut that is there, then secure and zip tie the wires along the edge of the kiosk cabinet.

Plug in the USB cable to the PC and plug the audio cable into the green audio port on the back of the PC. The audio cable that goes to the serial cable may be installed, if so, remove it and replace it with the ABE audio cable. Then remove any remaining metal shavings in/outside of the kiosk.

power the kiosk back up and test the keypad in Notepad again by pressing each key on the keypad.

Power the kiosk back up and test the keypad in Notepad again by pressing each key on the keypad.

Then perform a test transaction using the keypad and a headset.

Please note that having a pair of headphones is \*\*\* MANDATORY \*\*\*

Plug your headset into the 3.5mm port on the keypad. Pressing the "6" button on the keypad will increase the volume. "4" will decrease it.

### **Audio Troubleshooting**

1. If not receiving Audio through the keypad, the onboard audio on the pc may be muted.

A) To adjust audio through Control Pane

1. Enter Control Panel in Redbox Desktop, which is located in the lower left hand corner

2. In the Upper-Right hand corner of Control Panel, ensure that you are viewing by category.
3. Select "Hardware and Sound"
4. Select "Adjust Audio Volume"
5. Adjust audio level as necessary.

1. B) "Realtek" Audio issue.
2. When selecting "Adjust Audio Volume," if you see a "Realtek" audio button at the bottom,

Uninstall "Realtek" from Add/Remove Programs. Then reboot the kiosk and adjust audio level as necessary.

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