

LT-1171 Installation Instructions for RPL-MC-012

Replacing the Microphone on a TX Touch Screen

For instructions on replacing the microphone on a 22" Touch Screen, see page 8.

The RPL-MC-012 kit upgrades the microphone on a **TX3 15**" **Touch Screen Kiosk**. The kit consists of the following parts:

- MD-1100: microphone circuit board with adhesive strips on flat side
- WX-077: wiring harness

You will also need the following tools:

- Scissors or a utility knife
- Wrench
- A multimeter probe

To install the MC-012 microphone, you must perform the following steps:

- A. Shut down the TX3 Touch Screen Kiosk
- B. Attach the MD-1100 to the kiosk door
- C. Connect the WX-077 wiring harness

Details on how to perform these steps are in the following pages.



Attention: Prior to installing the RPL-MC-012 kit, install one of the following lobby control boards in the TX3 15" Touch Screen Kiosk:

- MD-951-2000 (Rev. I or higher)
- MD-1086-2000



A. Shut down the TX3 Touch Screen Kiosk

In order to prevent damage to the TX3 Touch Screen Kiosk, it is essential that you follow the proper shut down procedure.

To shut down the Touch Screen:

- 1. At the Touch Screen terminal, enter 9999.
- 2. Enter your administrator password, and then press OK.
- 3. Select File > Shut down > Shut down.
- 4. After the TX3 Configurator and Windows have finished shutting down, disconnect power from the Touch Screen.

B. Attach the MD-1100 to the kiosk door

The MD-1100 attaches to the inside of the kiosk door with double-sided tape. For ideal sound quality, the microphone opening on the flat side of the MD-1100 (see the following figure) must align with the microphone opening on the TX3 15" Touch Screen Kiosk door.





To do this, use a multimeter probe as a guide. Follow the instructions below.

If you do not have a multimeter probe, you can use a flashlight and a fine-tipped permanent marker to align the microphone. See the instructions on page 6.



Align and attach the MD-1100 to the kiosk door using a multimeter probe

- 1. Expose the adhesive on the two pieces of double-sided tape that are attached to the flat side of the MD-1100 board.
- 2. Open the kiosk door.
- 3. From the front of the kiosk door, insert the multimeter probe through the kiosk door's microphone opening.
- 4. Carefully insert the tip of the multimeter probe into the microphone opening on the MD-1100.

The microphone on the other side of the opening is very delicate. Permanent damage to the microphone can result if you force the tip of the multimeter probe too far into the microphone opening.

5. Align the MD-1100 so that the terminal for the WX-077 wiring harness is on the bottom (see Figure 2).



Terminal for the WX-077 wiring harness

- Figure 2 Proper alignment of the of the MD-1100 board.
- 6. Using the multimeter probe as a guide, move the MD-1100 towards the kiosk door until the MD-1100 attaches to the kiosk door.



Figure 3 Aligning the MD-1100 with the microphone hole

7. Go to section C. Connect the WX-077 wiring harness on page 4.



C. Connect the WX-077 wiring harness

The WX-077 wiring harness runs from the lobby control board, through a hole in the touch screen door, and attaches to MD-1100 on the inside of the kiosk door.

- 1. If there is a foam gasket around the microphone opening on the front of the touch screen door, remove the gasket and then clean any residue left behind.
- 2. Open the touch screen door.
- 3. Remove the nut securing the current microphone bracket to the inside of the touch screen door, and then remove the current microphone and its harness.



Figure 4 Microphone bracket

- 4. If there is a jumper on JW11, remove it (see Figure 5).
- 5. Attach the three-pin connector on the WX-077 to terminal TS4 on the lobby control board (see Figure 5).



Figure 5 Locations of JW11 and TS4 on the lobby control board.



6. Run the harness into the bottom right corner of the inner chassis and up the right side, as shown in Figure 6.



Figure 6 Placement of WX-077

- 7. Attach tape around the microphone opening on the touch screen door so that the edges do not cut the WX-077 harness.
- 8. Run the WX-077 harness through the microphone opening on the touch screen door, and then close the touch screen door.





- 9. Connect the three-pin connector on the WX-077 harness to the three-pin terminal on the MD-1100.
- 10. Close the Kiosk door.

Attention:Ensure that the slack in the WX-077 harness slides through the
microphone opening into the chassis, and that there are no kinks in the
cable.Ensure that the terminal for the WX-077 harness fits inside the
microphone opening, and does not touch the Touch Screen door.
Failure to do so could result in damage to the microphone or the
microphone harness.

11. Power on the TX3 15" Touch Screen Kiosk.

Attention: When servicing the TX3 15" Touch Screen Kiosk, disconnect the WX-077 wiring harness from the terminal on the MD-1100 before opening the touch screen door. Failure to do so could result in damage to the microphone or the microphone harness.



Appendix: Align and attach the MD-1100 to the kiosk door using a flashlight and a fine-tipped permanent marker

- 1. Open the kiosk door.
- 2. Shine your flashlight on the front of the kiosk door, making sure that the light falls on the kiosk door's microphone opening.

In the following steps, you will use the light beam to align the microphone opening on the MD-1100 with the microphone opening on the kiosk door.

3. Hold the MD-1100 board against the inside of the kiosk door so that the light from the flashlight falls on the MD-1100. When doing this, point the flat part of the MD-1100 at the kiosk door.

The light from the flashlight is clearly visible through the circuit board (see Figure 8).

Light from flashlight-



Figure 8 Flashlight shining through MD-1100

4. Move the MD-1100 board until the light falls on the gold microchip located in the middle of the circuit board.

While doing this, make sure that the white terminal on the circuit board is on the bottom. See the following figure for an example of a properly aligned MD-1100.



Figure 9 Properly aligned MD-1100 board



5. Hold the MD-1100 against the kiosk door, and then look through the kiosk's microphone opening from the front. Verify that you can see the MD-1100's microphone opening in the kiosk's microphone opening (see Figure 10).



Figure 10 Microphone opening on the Touch Screen door

If you cannot see the MD-1100's microphone opening, adjust the position of the MD-1100 until the microphone opening is visible.

- 6. Use a fine-tipped permanent marker to trace the outline of the MD-1100 on the inside of the kiosk door.
- 7. Expose the adhesive on the flat side of the MD-1100 board.
- 8. Using the outline you drew in step 6 as your guide, attach the MD-1100 to the inside of the kiosk door.
- 9. Go to section C. Connect the WX-077 wiring harness on page 4.



Replacing the Microphone on a TX 22" Touch Screen

The RPL-MC-012 kit upgrades the microphone on a **TX3 22**" **Touch Screen**. The kit consists of the following parts:

- MD-1100: microphone circuit board with adhesive strips on flat side
- WX-077: wiring harness

You will also need the following tools:

- Screwdriver or a utility knife
- A multimeter probe

To install the MC-012 microphone, you must perform the following steps:

- A. Shut down the TX3 Touch Screen
- B. Remove the old microphone
- C. Attach the MD-1100 to the door
- D. Connect the WX-077 wiring harness

Details on how to perform these steps are in the following pages.

A. Shut down the TX3 Touch Screen

In order to prevent damage to the TX3 Touch Screen, it is essential that you follow the proper shut down procedure.

To shut down the 22" Touch Screen:

- 1. At the Touch Screen terminal, enter 9999.
- 2. Enter your administrator password, and then press OK.
- 3. Select File > Shut down > Shut down.
- 4. After the TX3 Configurator and Windows have finished shutting down, disconnect power from the Touch Screen.



B. Remove the old microphone

- 1. Open the door.
- 2. Use a screwdriver or utility knife to remove the old MD-1100 microphone circuit board from the inside of the Touch Screen door. Clean any residue left behind.



Figure 11 MD-1100 on the 22" Touch Screen door

3. Disconnect the old microphone cable.

C. Attach the MD-1100 to the door

The MD-1100 attaches to the inside of the Touch Screen door with double-sided tape. The microphone fits into an indentation in the door. For ideal sound quality, the microphone opening on the flat side of the MD-1100 (see Figure 12) must align with the microphone opening on the door.



Microphone opening on MD-1100

Figure 12 Location of the microphone opening on the MD-1100



Align and attach the MD-1100 to the Touch Screen door using a multimeter probe:

- 1. Expose the adhesive on the two pieces of double-sided tape that are attached to the flat side of the MD-1100 board.
- 2. Open the door.
- 3. From the front of the door, insert the multimeter probe through the door's microphone opening.
- 4. Carefully insert the tip of the multimeter probe into the microphone opening on the MD-1100.

The microphone on the other side of the opening is very delicate. Permanent damage to the microphone can result if you force the tip of the multimeter probe too far into the microphone opening.

- 5. Align the MD-1100 so that the terminal for the WX-077 wiring harness is on the bottom.
- 6. Using the multimeter probe as a guide, move the MD-1100 towards the door until the MD-1100 attaches to the indentation in the door.
- 7. Go to section D. Connect the WX-077 wiring harness below.

D. Connect the WX-077 wiring harness

1. Attach the three-pin connector on the WX-077 to terminal TS4 on the lobby control board (see Figure 13).





- 2. If there is a jumper on JW11, remove it (see Figure 13).
- 3. Connect the three-pin connector on the WX-077 harness to the three-pin terminal on the MD-1100.
- 4. Reconnect power to the Touch Screen, and then turn it on.