

# ***TX3 Series***

## **Touch Screen**



## **Installation Manual**

*Copyright August 2023 Mircom Inc.  
All rights reserved.*

Mircom TX3 Touch Screen Installation Manual v 16

Microsoft, MS-DOS, Windows, and Windows 2000/NT/XP/Vista/7/8/10 are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Mircom  
25 Interchange Way  
Vaughan, Ontario  
L4K 5W3  
905.660.4655  
<http://www.mircom.com>

## Contents

<b>1</b>	<b>Introduction</b>	<b>9</b>
1.1	TX3 Systems	9
1.2	Features	14
1.3	Touch Screen Sizes and Enclosures	15
1.4	Touch Screen Accessories	16
1.5	Maximum and Minimum Mounting Heights to Comply with the ADA (Americans with Disabilities Act)	17
1.6	Mounting requirements from the 2010 ADA Standards for Accessible Design	18
1.7	Warranty and Special Notices	19
1.8	About This Manual	19
1.9	Contact Us	20
<b>2</b>	<b>Installation</b>	<b>21</b>
2.1	Installing TX3-TOUCH-F15-C/D/E	22
2.2	Installing TX3-TOUCH-S15-C/D/E	24
2.3	Installing TX3-TOUCH-S22-C/D/E/F	26
2.4	Installing TX3-TOUCH-F22-C/D/E/F	29
2.5	Installing Outdoor Touch Screens	32
2.6	Installing TX3-T-KIOSK2	36
2.7	Installing TX3-T-KIOSK3	44
2.8	Installing the TX3-PS24-5A Power Supply Enclosure	51
<b>3</b>	<b>Touch Screen System and Setup</b>	<b>54</b>
3.1	Installation Prerequisites	55
3.2	Touch Screen System	55
3.3	TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E Inside Door, Boards, and Grounding	59
3.4	TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F Inside Door, Boards, and Grounding	64
3.5	Outdoor Touch Screen Door, Boards, and Grounding	68
3.6	Lobby Controller Board	71
3.7	Connecting to the External Power Supply	73
3.8	Installing the TX3-TOUCH-UPS-KIT Uninterruptible Power Supply	74
3.9	Turning the Touch Screen On and Off	75
3.10	Installing the Postal Lock on TX3 Touch Indoor Units	76
3.11	Installing the Telephone Lines	76
3.12	Ethernet	76
3.13	Beginning Configuration	77
3.14	Installing Other Optional and Replacement Components	78
3.15	RS-485	79
3.16	Installing the P1264 IP camera	81
3.17	Installing the Optional TX3-DELTA5 Card Reader	84

<b>4</b>	<b>Touch Screen Factory Wiring</b>	<b>89</b>
4.1	Factory Wiring for Models Ending in -F	90
4.2	Factory Wiring for Models Ending in -E	94
4.3	Factory Wiring for Models Ending in -D	101
4.4	Factory Wiring for Models Ending in -C	110
4.5	Factory Wiring for Outdoor Units	117
<b>5</b>	<b>Adding Controllers</b>	<b>125</b>
5.1	Adding a Controller	126
<b>6</b>	<b>Specifications</b>	<b>127</b>
6.1	Indoor Touch Screens	127
6.2	Weather-Resistant Touch Screens	128
6.3	RS-485 TX3-USB-AD Kit	129
6.4	TX3-GPM Guard Phone Module	129
6.5	TX3-CX-1NP	130
6.6	TX3-WIEGAND-OUT	130
<b>7</b>	<b>Resident Operating Instructions</b>	<b>131</b>
7.1	NSL Resident Operating Instructions	132
7.2	ADC Resident Operating Instructions	134
<b>8</b>	<b>Warranty and Warning Information</b>	<b>135</b>
	<b>Special Notices</b>	<b>140</b>



## List of Figures

Figure 1	TX3 devices on an RS-485 network	11
Figure 2	TX3 devices connected to an Ethernet TCP/IP network. Devices connected to an Ethernet network are Main Nodes	12
Figure 3	TX3 devices connected to a combination Ethernet TCP/IP network with RS-485 subnetworks	13
Figure 4	Top and bottom of the controls	17
Figure 5	TX3-TOUCH-F15-C/D/E dimensions (front)	23
Figure 6	TX3-TOUCH-F15-C/D/E dimensions (back)	23
Figure 7	TX3-TOUCH-S15-C/D/E dimensions (front)	25
Figure 8	TX3-TOUCH-S15-C/D/E dimensions (back)	25
Figure 9	TX3-TOUCH-S22-C/D/E/F mounting holes	27
Figure 10	TX3-TOUCH-S22-C/D/E/F dimensions (front)	28
Figure 11	TX3-TOUCH-S22-C/D/E/F dimensions (back)	28
Figure 12	TX3-TOUCH-F22-C/D/E/F mounting holes	30
Figure 13	TX3-TOUCH-F22-C/D/E/F dimensions (front)	31
Figure 14	TX3-TOUCH-F22-C/D/E/F dimensions (back)	31
Figure 15	TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) dimensions (front)	33
Figure 16	TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) dimensions (back)	33
Figure 17	Installing TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) on a wall (without the backbox)	34
Figure 18	Installing TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) on a wall with the TX3-TOUCH-WR-BB backbox	35
Figure 19	Dimensions of TX3-T-KIOSK2 with TX3-TOUCH-S22-C	36
Figure 20	Dimensions of TX3-T-KIOSK2 with TX3-TOUCH-S15-C	37
Figure 21	TX3-T-KIOSK2 components	38
Figure 22	TX3-T-KIOSK2 dimensions (from below)	39
Figure 23	Fit the stand on the floor bracket	40
Figure 24	Fit the stand on the floor bracket (as seen from below)	40
Figure 25	Attach the stand to the floor bracket	41
Figure 26	Mounting holes	42
Figure 27	Mount TX3-TOUCH-S22-C/D/E/F on the stand	42
Figure 28	Mount TX3-TOUCH-S15-C/D/E on the stand	43
Figure 29	TX3-T-KIOSK3 dimensions	44
Figure 30	TX3-T-KIOSK3 components	45
Figure 31	Floor bracket mounting holes	46
Figure 32	TX3-T-KIOSK3 dimensions (from below)	46
Figure 33	Fit the stand on the floor bracket	47
Figure 34	Fit the stand on the floor bracket (from below)	47
Figure 35	Mount TX3-TOUCH-S22 on the stand	48
Figure 36	Fit the door on the stand	49
Figure 37	Close-up showing the door fitting on the ledge	49
Figure 38	Swing the door closed	50
Figure 39	Inside the switching power supply box	51
Figure 40	Power supply voltage selection switch	52
Figure 41	TX3-PS24-5A dimensions	53
Figure 42	Single Touch Screen	56
Figure 43	Single Touch Screen with ADC and NSL Lines	57

Figure 44	Touch Screen wiring	58
Figure 45	TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E inside door	59
Figure 46	Controller board panel for TX3-TOUCH-F15-C/D and TX3-TOUCH-S15-C/D	60
Figure 47	Controller board panel for TX3-TOUCH-F15-E and TX3-TOUCH-S15-E	61
Figure 48	Ground and power terminals on TX3-TOUCH-F15-C/D and TX3-TOUCH-S15-C/D	62
Figure 49	Ground and power terminals on TX3-TOUCH-F15-E and TX3-TOUCH-S15-E	62
Figure 50	Grounding TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E	63
Figure 51	TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F inside door	64
Figure 52	Controller Board Panel for TX3-TOUCH-F22-C/D/E and TX3-TOUCH-S22-C/D/E	65
Figure 53	Controller Board Panel for TX3-TOUCH-F22-F and TX3-TOUCH-S22-F	66
Figure 54	Grounding the 22" Touch Screen	67
Figure 55	TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) inside door	68
Figure 56	TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR controller board panel	69
Figure 57	TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A controller board panel	70
Figure 58	Lobby controller board connectors - top	71
Figure 59	Lobby controller board connectors - bottom	72
Figure 60	TX3-PS24-5A terminal block wiring	73
Figure 61	On/Off switch	75
Figure 62	Ethernet ports	76
Figure 63	RS-485 wiring	80
Figure 64	Position of the camera on the inside door	81
Figure 65	Mounting the IP camera in the bracket	82
Figure 66	Mounting the camera bracket	82
Figure 67	Mounting the camera bracket upside down	83
Figure 68	Position of the card reader	84
Figure 69	Old and new card reader brackets	85
Figure 70	Old card reader bracket	85
Figure 71	New card reader bracket	86
Figure 72	Card reader and old bracket	86
Figure 73	Card reader and new bracket	87
Figure 74	Old card reader bracket	87
Figure 75	New card reader bracket	88
Figure 76	Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F	90
Figure 77	Factory connections on the power button	91
Figure 78	Factory connections on the lobby controller board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F	91
Figure 79	Factory connections on the PC sub compact board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F	92
Figure 80	Display connections on TX3-TOUCH-S22-F and TX3-TOUCH-F22-F	93
Figure 81	Factory connections on the audio mixer board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E	94
Figure 82	Factory connections on the power button	95
Figure 83	Factory connections on the lobby controller board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E	95

- Figure 84 Factory connections on the PC sub compact board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E [96](#)
- Figure 85 Display connections on TX3-TOUCH-S15-E and TX3-TOUCH-F15-E [97](#)
- Figure 86 Default jumper settings on MD-1406 [97](#)
- Figure 87 Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-E and TX3-TOUCH-F22-E [98](#)
- Figure 88 Factory connections on the power button [98](#)
- Figure 89 Factory connections on the lobby controller board for TX3-TOUCH-S22-E and TX3-TOUCH-F22-E [99](#)
- Figure 90 Factory connections on the PC sub compact board for TX3-TOUCH-S22-E and TX3-TOUCH-F22-E [99](#)
- Figure 91 Display connections on TX3-TOUCH-S22-E and TX3-TOUCH-F22-E [100](#)
- Figure 92 Factory connections on the audio mixer board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D [101](#)
- Figure 93 Factory connections on the power button [101](#)
- Figure 94 Factory connections on the lobby controller board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D [102](#)
- Figure 95 Factory connections on the PC sub compact board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D [102](#)
- Figure 96 Display connections on TX3-TOUCH-S15-D and TX3-TOUCH-F15-D [103](#)
- Figure 97 Make sure that the arrow is visible [103](#)
- Figure 98 Ground wires on 15 inch Touch Screens [104](#)
- Figure 99 Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D [105](#)
- Figure 100 Factory connections on the power button [105](#)
- Figure 101 Factory connections on the lobby controller board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D [106](#)
- Figure 102 Factory connections on the PC sub compact board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D [106](#)
- Figure 103 Display connections on TX3-TOUCH-S22-D and TX3-TOUCH-F22-D [107](#)
- Figure 104 Ground wires on 22 inch Touch Screens [108](#)
- Figure 105 Default jumper settings on MD-1346 [109](#)
- Figure 106 Factory connections on the audio mixer board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C [110](#)
- Figure 107 Factory connections on the power button [110](#)
- Figure 108 Factory connections on the lobby controller board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C [111](#)
- Figure 109 Factory connections on the PC sub compact board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C [111](#)
- Figure 110 Display connections on TX3-TOUCH-S15-C and TX3-TOUCH-F15-C [112](#)
- Figure 111 Make sure that the arrow is visible [112](#)
- Figure 112 Factory connections on the MD-1236 power supply and audio mixer board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C [113](#)
- Figure 113 Factory connections on the power button [113](#)
- Figure 114 Factory connections on the lobby controller board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C [114](#)
- Figure 115 Factory connections on the MD-1062 PC sub compact board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C [114](#)
- Figure 116 Display connections on TX3-TOUCH-S22-C and TX3-TOUCH-F22-C [115](#)
- Figure 117 Default jumper settings on MD-1062 PC board [116](#)

- Figure 118 Factory connections on the audio mixer board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A [117](#)
- Figure 119 Factory connections on the power button [117](#)
- Figure 120 Factory connections on the lobby controller board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A [118](#)
- Figure 121 Factory connections on the PC sub compact board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A [119](#)
- Figure 122 Display connections on TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A [120](#)
- Figure 123 Factory connections on the power supply and audio mixer board (MD-1236) for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [121](#)
- Figure 124 Factory connections on the power button [121](#)
- Figure 125 Factory connections on the lobby controller board MD-1245 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [122](#)
- Figure 126 Factory connections on the PC board MD-1288 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [122](#)
- Figure 127 Display connections for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [123](#)
- Figure 128 Ground wires for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [123](#)
- Figure 129 Default jumper settings on MD-1288 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR [124](#)

# 1 Introduction

This manual provides information about the installation and operation of the Touch Screen, and must be read in its entirety before beginning any installation work.

Installation must be performed by a qualified technician and must adhere to the standards and special notices set by the local regulatory bodies.

For warranty and special notices information see the Warranty chapter on page 135 and Special Notices on page 140.

---

**Note:** Mircom periodically updates panel firmware and Configurator Software to add features and correct any minor inconsistencies. For information about the latest firmware or software visit the Mircom website at [www.mircom.com](http://www.mircom.com).

---

---

**Warning:** **The Touch Screen assembly must be grounded by a qualified electrician. An improperly grounded unit can result in equipment malfunction and electrical shock.**

**To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.**

---

## **This manual explains**

- Touch Screen System
- Installation and Setup
- TX3 Integration
- Resident Operating Instructions

## **1.1 TX3 Systems**

Mircom's TX3 series of Touch Screens provide high quality two-way communication between residents and their visitors in a multi-unit dwelling establishment.

The basic TX3 system consists of the TX3 Touch Screen and depending on the application, may be integrated with a combination of Mircom Voice Access, Card Access, and Elevator Restriction Units. All access systems may be networked together using a peer-to-peer RS-485 network, an Ethernet TCP/IP network, or a combination of a TCP/IP network with RS-485 subnetworks.

A maximum of 63 units are supported on an RS-485 network or subnetwork. Valid network addresses range from 1 to 63. Units with a real time clock, such as Touch Screens and Card Access Units, require the address node to be 1. If you are using an Ethernet TCP/IP network or a combination of a TCP/IP network with RS-485 subnetworks you can add many more than 63 devices to your system. For more information, see section 1.1.3 below.

The TX3 system is capable of providing ADC or NSL type voice access control from a single panel or from a networked system.

The access system can be configured as an autodialer controller (ADC) or as a no subscriber line (NSL) system. Both system setups can be configured for multiple entrances with independent doors and control devices such as electric door locks, cameras, and garage doors.

### **1.1.1      ADC and NSL Capability**

TX3 supports full ADC and NSL telephone connectivity from a single Touch Screen panel or from a networked system. A single panel supports up to five ADC and/or NSL telephone lines.

### **1.1.2      Elevator Restriction Units**

The TX3-ER-8-A/B Elevator Restriction Unit limits building accessibility by granting visitor access only to the destination floor.

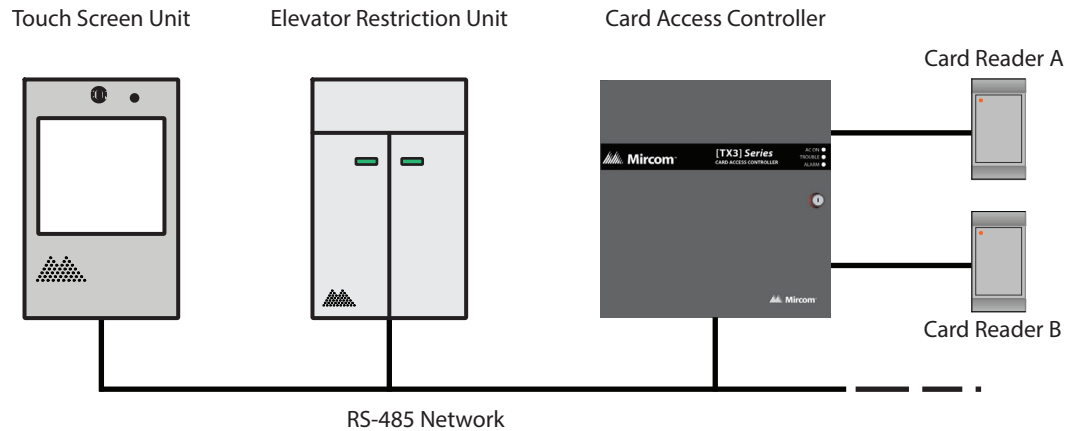
### **1.1.3      Other Controllers**

Mircom devices, such as the Touch Screen and the Lobby Control Unit, can be networked with the TX3 system through a peer-to-peer RS-485 network, an Ethernet TCP/IP network, or a combination of an Ethernet network with RS-485 subnetworks.

The TX3 Configurator software can connect to any of these network configurations. How you connect to the network (that is, through TCP/IP, USB, a modem, or the COM port) determines what devices you can configure on the system. The different network configurations are explained in the rest of this section.

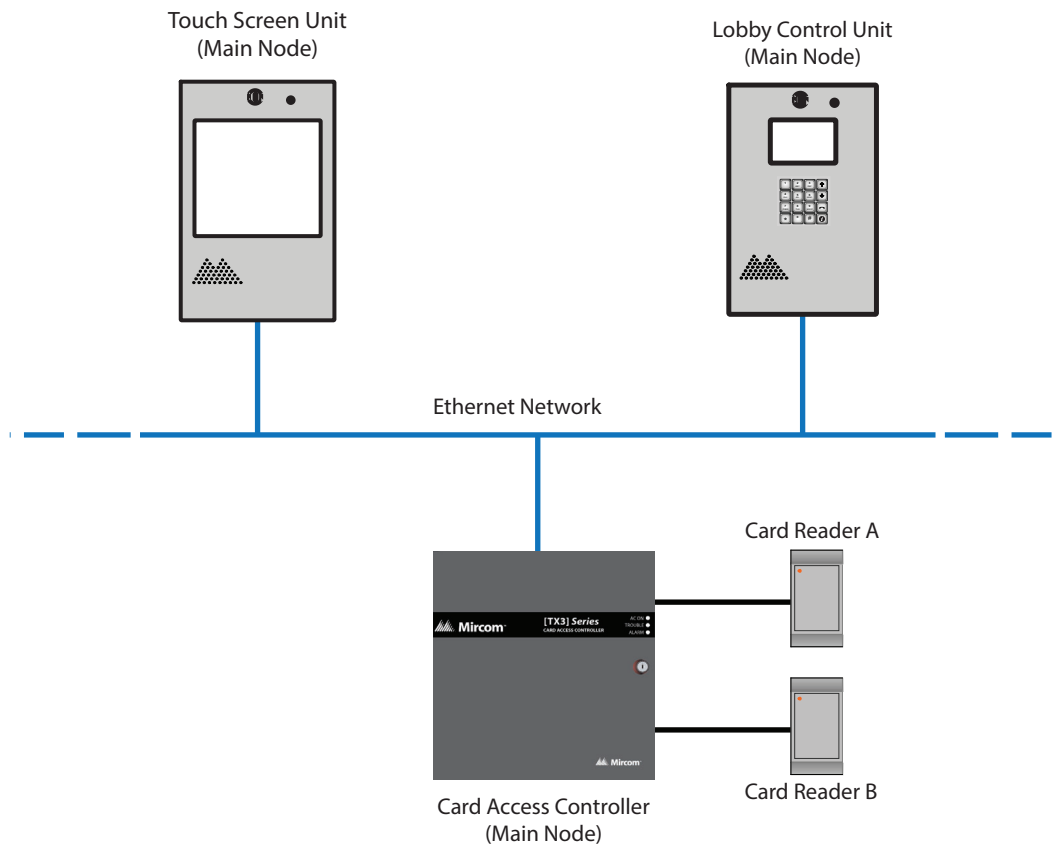
Figure 1 shows a configuration with TX3 controllers connected on an RS-485 network. Each controller has to have a unique network address on the RS-485 network. Up to 63 unique network addresses can be assigned. If you connect to

any device on the RS-485 network (using USB, a modem, or the COM port), you can also connect to and configure any other device on the RS-485 network using the TX3 Configurator.



**Figure 1. TX3 devices on an RS-485 network**

Figure 2 shows a configuration with TX3 devices connected to an Ethernet TCP/IP network. This configuration removes the 63 device limitation that you have on an RS-485 network. The devices connected to an Ethernet TCP/IP network are called Main Nodes. If you connect to the TCP/IP network with the TX3 Configurator, you can connect to and configure any of the Main Nodes on the Ethernet TCP/IP network. If you connect directly to one of the Main Nodes using USB, a modem, or a COM port, you will be able to configure that device but not any other device.

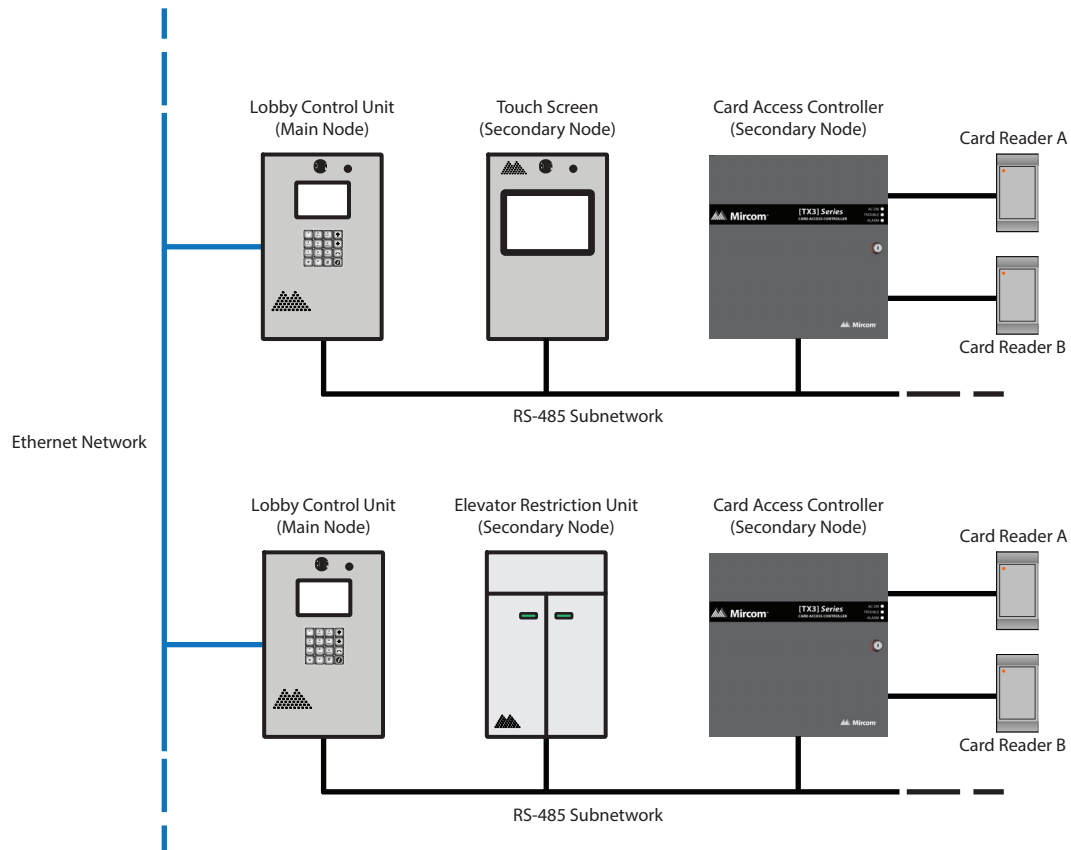


**Figure 2. TX3 devices connected to an Ethernet TCP/IP network. Devices connected to an Ethernet network are Main Nodes**

- Notes:** In order for a panel to be a Main Node it must satisfy the following conditions.
- It must be IP capable. All the panels described in this manual are IP capable.
  - If the panel is not a Touch Screen, it must have a TX3-IP IP Module installed.



Figure 3 shows a configuration with TX3 devices connected on both an Ethernet TCP/IP network and on RS-485 subnetworks. Devices connected to a Main Node's RS-485 subnetwork are Secondary Nodes to the Main Node. Each RS-485 subnetwork can have up to 63 devices connected to it; you can still have more than 63 Main Nodes connected to the Ethernet network.



**Figure 3. TX3 devices connected to a combination Ethernet TCP/IP network with RS-485 subnetworks**

If you connect to the Ethernet TCP/IP network with the TX3 Configurator, you can configure any of the nodes in this configuration. If you connect directly to a device using USB, a modem, or a COM port, you will only be able to configure devices that are on the same RS-485 subnetwork as that device.

**Note:** Normally, there can only be one Main Node on an RS-485 subnetwork. That is, you cannot connect one RS-485 subnetwork to another RS-485 subnetwork. However, if you want to connect to a Touch Screen panel remotely over the Internet (for instance, to configure Touch Screen options such as advertising), the Touch Screen panel must be set as an Main Node even if there is no Secondary panel connected to it.

## 1.2 Features

Features of TX3-TOUCH-S15-C/D/E and TX3-TOUCH-F15-C/D/E include:

- 2000 name capacity
- TCP/IP capability to remotely program and maintain the system
- Built-in HD web camera for video communication to the suite
- Optional system diagnostic software for remote monitoring
- Multi-language support; English and French are provided and a language editor allows all text to be translated into other languages
- Integrated advertising module offsets capital costs and generates recurring revenue for the property
- Configurable themes, screens and layouts allow customization to any decor
- Built-in Wiegand proximity reader, 125 kHz
- Optional high definition AXIS IP Camera
- Provision for postal lock
- Provision for single door controller (TX3-CX-1NP)
- Integrates with TX3 InSuite device

Features of TX3-TOUCH-S22-C/D/E/F and TX3-TOUCH-F22-C/D/E/F include:

- 2000 name capacity
- TCP/IP capability to remotely program and maintain the system
- Built-in HD web camera for video communication to the suite
- Optional system diagnostic software for remote monitoring
- Multi-language support; English and French are provided and a language editor allows all text to be translated into other languages
- Integrated advertising module offsets capital costs and generates recurring revenue for the property
- Configurable themes, screens and layouts allow customization to any decor
- Built-in Wiegand proximity reader, 125 kHz
- Optional high definition AXIS IP Camera
- Provision for postal lock
- Provision for two door controller (TX3-CX-2)
- Provision for single door controller (TX3-CX-1NP)
- Integrates with TX3 InSuite device

Features of TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) include:

- Vandal resistant enclosure to endure high external impact
- 1600 nits high brightness display
- 15” color anti-glare, industrial grade, 6.4mm thick glass touch screen display
- Touch screen works under any weather condition – rain, snow and even when the user is wearing gloves
- Two locks for added security
- Bottom firing speaker is perfect for outdoor application
- Built-in TCP/IP capability for remote programming
- Built-in HD camera and built-in proximity card reader for easy integration to access control panels
- Provision to add optional HD IP camera

## 1.3 Touch Screen Sizes and Enclosures

### 1.3.1 15 Inch Indoor Models

The 15 inch Touch Screen models are stand alone, surface or flush mounted.

**TX3-TOUCH-F15-C, TX3-TOUCH-F15-D, TX3-TOUCH-F15-E.** 15” Touch Screen flush mount, stainless steel finish Touch Screen with speaker, microswitch for postal lock, external power supply, and flush mounting back box. Designed for indoor use. Can be configured as a Main Node on an Ethernet network.

**TX3-TOUCH-S15-C, TX3-TOUCH-S15-D, TX3-TOUCH-S15-E.** 15” Touch Screen surface mount, stainless steel finish Touch Screen with speaker, microswitch for postal lock, external power supply, and surface mounting back box. Designed for indoor use. Can be configured as a Main Node on an Ethernet network.

### 1.3.2 15 Inch Weather Resistant Models

The weather and vandal resistant Touch Screen models are either black or silver, and are surface mounted.

**TX3-TOUCH-S15B-WR, TX3-TOUCH-S15S-WR, TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A.** 15” Touch Screen surface mount with weather-resistant enclosure and display for indoor or outdoor use. It comes with an HD camera and card reader, and has provisions for an HD IP camera and card access controller within the same enclosure.

### 1.3.3 22 Inch Models

The 22 inch Touch Screen models are surface or flush mounted.

**TX3-TOUCH-S22-C, TX3-TOUCH-S22-D, TX3-TOUCH-S22-E, TX3-TOUCH-S22-F.** 22" Touch Screen surface mount, stainless steel finish Touch Screen with speaker, microswitch for postal lock, external power supply, and surface mounting back box. Designed for indoor use. Can be configured as a Main Node on an Ethernet network.

**TX3-TOUCH-F22-C, TX3-TOUCH-F22-D, TX3-TOUCH-F22-E, TX3-TOUCH-F22-F.** 22" Touch Screen flush mount, stainless steel finish Touch Screen with speaker, microswitch for postal lock, external power supply, and flush mounting back box. Designed for indoor use. Can be configured as a Main Node on an Ethernet network.

## 1.4 Touch Screen Accessories

The Touch Screen accessories consist of the following items:

- TX3-T-KIOSK2: Black free-standing square pillar mount for TX3-TOUCH-S15-C/D/E and TX3-TOUCH-S22-C/D/E/F
- P1264 IP camera
- TX3-GPM Guard Phone Module
- TX3-CF-003 Optional Fan
- RPL-LK-WR Replacement Lockset for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- TX3-PL-ENCL Postal Lock Enclosure for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- TX3-USB-AD Kit
- TX3-WIEGAND-OUT Wiegand Output Module
- TX3-CX-1NP Single Door Control Module, PoE, 12 VDC, 24-48 VDC
- TX3-TOUCH-WR-BB Mounting Box for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- TX3-T-PEDESTAL-B-WR Pedestal for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- RPL-SC-420002 Replacement Display for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- RPL-TOUCH-WR-WK Replacement Reader and Camera Window Kit for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)
- RPL-SC-420005 Replacement Display for TX3-TOUCH-S22-E/F and TX3-TOUCH-F22-E/F

## 1.5 Maximum and Minimum Mounting Heights to Comply with the ADA (Americans with Disabilities Act)

To comply with section 308.2.1 of the 2010 ADA Standards for Accessible Design, the maximum and minimum mounted heights for TX3 Touch screens are shown in the table below.

The “lowest part of the unit” is the bottom of the door on flush-mounted units and the bottom of the body on surface-mounted units.

**Attention:** The keyboard must be set to Accessible in the Touch Screen configuration in order for these distances to be valid.

Model	Maximum distance from the finished floor to the lowest part of the unit	Minimum distance from the finished floor to the lowest part of the unit
TX3-TOUCH-F15-C, TX3-TOUCH-F15-D, TX3-TOUCH-F15-E	982 mm (38 5/8")	215 mm (8 1/2")
TX3-TOUCH-S15-C, TX3-TOUCH-S15-D, TX3-TOUCH-S15-E	956 mm (37 5/8")	189 mm (7 1/2")
TX3-TOUCH-F22-C, TX3-TOUCH-F22-D, TX3-TOUCH-F22-E, TX3-TOUCH-F22-F	952 mm (37 1/2")	210 mm (8 1/4")
TX3-TOUCH-S22-C, TX3-TOUCH-S22-D, TX3-TOUCH-S22-E, TX3-TOUCH-S22-F	927 mm (36 5/8")	185 mm (7 1/4")
TX3-TOUCH-S15B-WR, TX3-TOUCH-S15S-WR, TX3-TOUCH-S15B-WR-A, TX3-TOUCH-S15S-WR-A	956 mm (37 5/8")	189 mm (7 1/2")



Figure 4. Top and bottom of the controls

## 1.6 Mounting requirements from the 2010 ADA Standards for Accessible Design

See <http://www.ada.gov/> for more information.

### 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.

**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.

### 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 side reach 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.

**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.

## **1.7 Warranty and Special Notices**

Mircom values your business and always attempts to provide you with the very best service.

See the Warranty and Warning Information chapter on page 135 and the Special Notices on page 140 for information about the warranty and special notices about equipment use.

## **1.8 About This Manual**

This manual provides comprehensive information on the installation and configuration of the TX3 Series Touch Screen by the installation technician. Tasks are described in the order that they are likely to be performed.

### **1.8.1 Additional Documentation**

For additional documentation, see the following Mircom literature:

- LT-6724-256 TX3 New Products Supplement
- LT-995 TX3 Configuration and Administrator Manual
- LT-969 TX3 Telephone Access System Installation and Operation Manual
- LT-5997 TX3-CX-1NP Installation Manual
- LT-6618 TX3-CX-1 Installation Manual
- LT-6906 TX3 UL Card Access Installation Manual
- LT-980 TX3-CX Card Access System Installation and Operation Manual
- LT-1160 TX3-CX-A8 Aperio Interface Panel Installation and Operation Manual
- LT-9940 TX3 Elevator Restriction Installation and Operation Manual
- LT-972 TX3-GPM Installation Instructions
- LT-6027 TX3-USB-AD Kit Installation Instructions
- LT-6074 TX3-CF-003 Fan Installation Instructions
- LT-6682 TX3-WIEGAND-OUT Installation Instructions
- LT-6723 TX3-PL-ENCL Postal Lock Enclosure
- LT-6192 TX3-TOUCH-WR-BB Installation Instructions
- LT-6745 TX3-T-PEDESTAL-B-WR Installation Instructions

## **1.9 Contact Us**

### **1.9.1 Canada**

**Phone:** 905-660-4655

**Toll Free:** 1-888-660-4655

**Fax:** 905-660-4113

### **1.9.2 International**

**Phone:** 905-660-4655

### **1.9.3 Website**

<http://www.mircom.com>



# 2 Installation

This chapter provides information on how to install the Touch Screens.

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

---

## **This chapter explains**

- Installing TX3-TOUCH-F15-C/D/E
- Installing TX3-TOUCH-S15-C/D/E
- Installing TX3-TOUCH-S22-C/D/E/F
- Installing TX3-TOUCH-F22-C/D/E/F
- Installing Outdoor Touch Screens
- Installing TX3-T-KIOSK2
- Installing TX3-T-KIOSK3
- Installing the TX3-PS24-5A Power Supply Enclosure

## 2.1 Installing TX3-TOUCH-F15-C/D/E

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

---

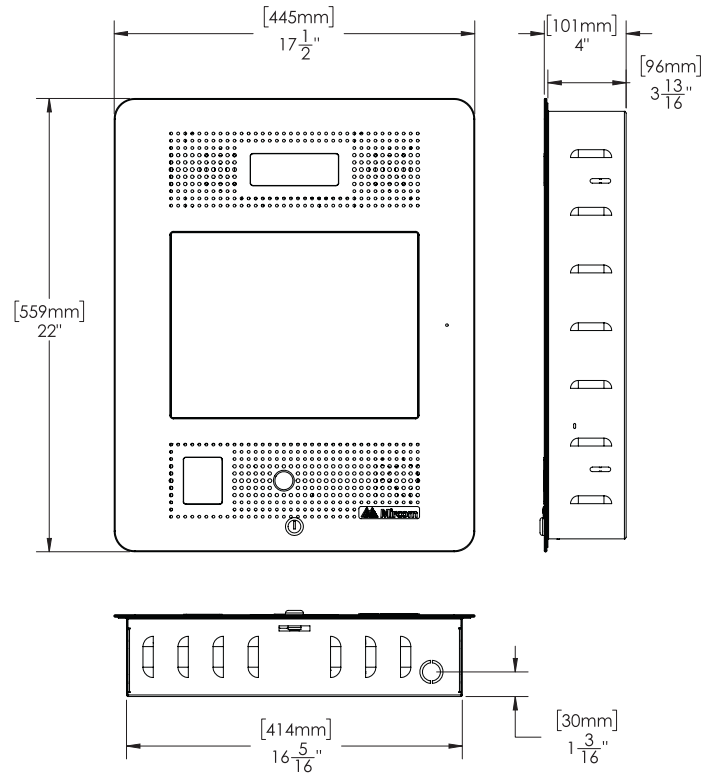
The flush mount enclosure mounts on the wall. Mount the enclosure right-side up (the Mircom logo on the door is on the bottom).

You need:

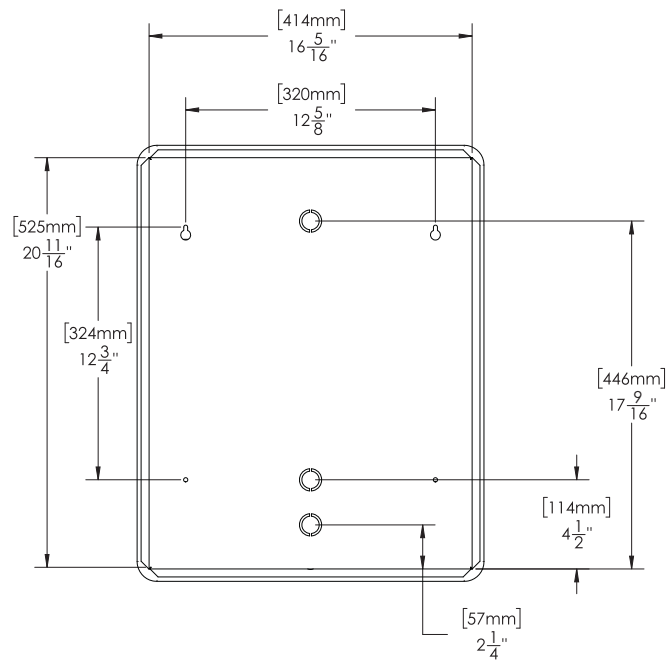
- 4 fasteners appropriate for the wall that you are mounting the enclosure on.

### To flush mount the enclosure

1. Find a suitable location for the enclosure. You can mount the enclosure using the keyholes on the back, or the knockouts on the side, or both.
2. Trace an opening in the wall for the enclosure with one side aligned with a wall stud.
3. Cut an opening in the wall 1/8" (3 mm) larger than the tracing, ensuring that one side is aligned with the wall stud or supporting structure.
4. Insert the enclosure into the wall cutout, and using the side of the enclosure as a template mark the hole mounting locations (either keyholes or knockouts or both).
5. If you are using the keyholes, remove the enclosure and place 2 fasteners halfway into the wall into the two top keyhole locations.
6. Place the enclosure onto the top fasteners, then lower it so that the fasteners fit in the narrow part of the keyholes.
7. Screw the other fasteners into the remaining holes.
8. Tighten all fasteners into place.
9. Proceed with the power supply installation described in section 2.8 on page 51.



**Figure 5. TX3-TOUCH-F15-C/D/E dimensions (front)**



**Figure 6. TX3-TOUCH-F15-C/D/E dimensions (back)**

## 2.2 Installing TX3-TOUCH-S15-C/D/E

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

---

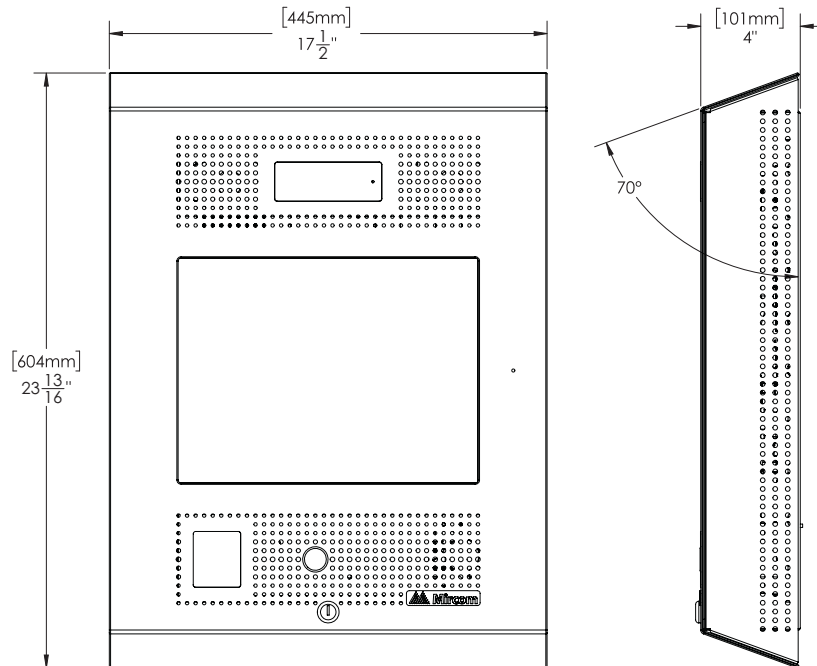
The surface mount enclosure mounts on the wall. Mount the enclosure right-side up (the Mircom logo on the door is on the bottom).

You need:

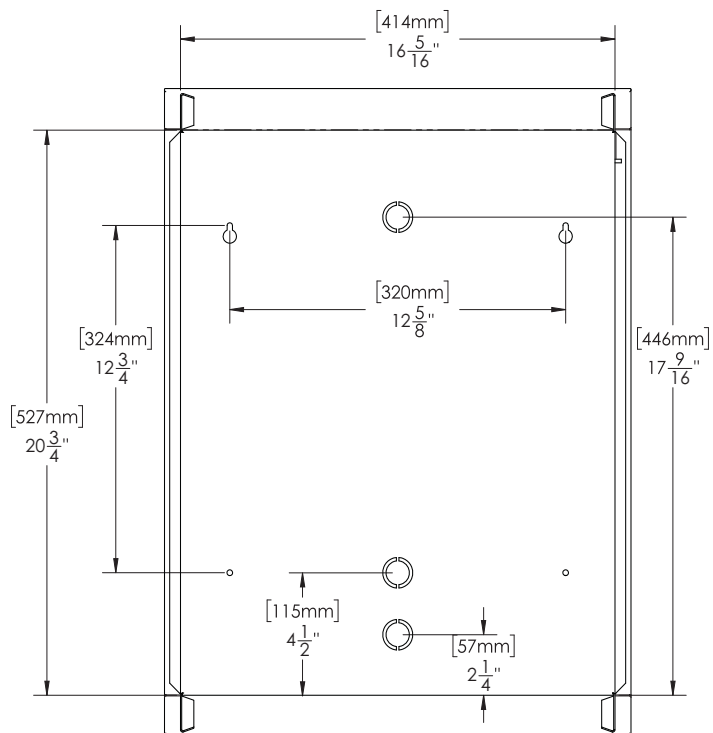
- 4 fasteners appropriate for the wall that you are mounting the enclosure on.

### To surface mount the enclosure

1. Find a suitable location for the enclosure.
2. Mark the back mounting locations of the two top screws. Ensure that at least one screw is over a wall stud.
3. Place the fasteners halfway into the wall in the two top keyhole locations and wall stud.
4. Place the enclosure onto the fasteners, then lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other fasteners into the remaining holes.
6. Tighten all fasteners into place.
7. Proceed with the power supply installation described in section 2.8 on page 51.



**Figure 7. TX3-TOUCH-S15-C/D/E dimensions (front)**



**Figure 8. TX3-TOUCH-S15-C/D/E dimensions (back)**

## 2.3 Installing TX3-TOUCH-S22-C/D/E/F

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

---

---

**Attention:** The 22" Touch Screen enclosures are heavy (80 lbs or 37 kg). Never attempt to lift this product by yourself. At least two people should lift it together.

---

The surface mount enclosure mounts on the wall. Mount the enclosure right-side up (the Mircom logo on the door is on the bottom).

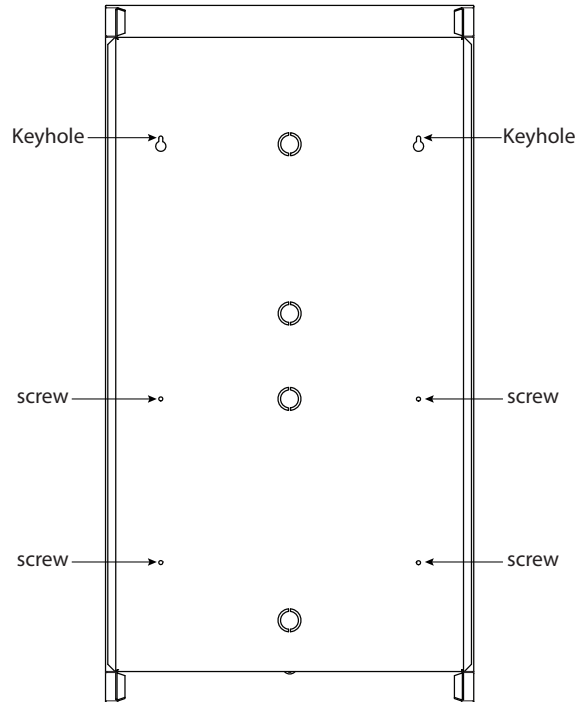
You need:

6 fasteners appropriate for the wall that you are mounting the enclosure on.

### To mount the enclosure

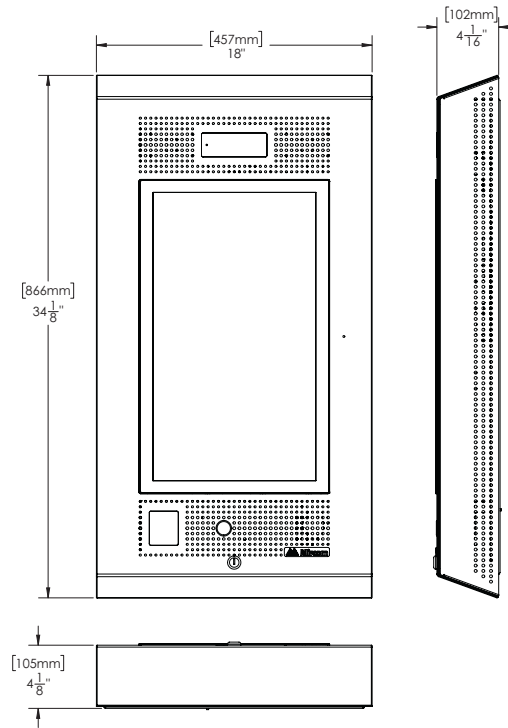
1. Find a suitable location for the surface mount enclosure over a wall stud. The wall must be able to support a weight of 80 lbs (37 kg).

2. Using the surface mount enclosure as a template, mark the back mounting hole locations of the two keyholes as shown in Figure 9. Ensure that at least one side is over a wall stud.

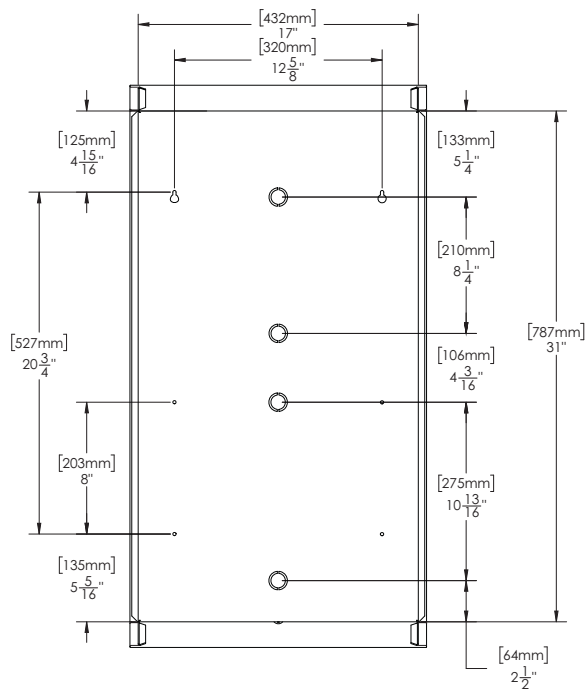


**Figure 9. TX3-TOUCH-S22-C/D/E/F mounting holes**

3. Remove the enclosure and place the top two fasteners halfway into the marked hole locations and wall stud.
4. Place the enclosure onto the two fasteners and lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other four fasteners into the four remaining holes.
6. Tighten all six fasteners into place.
7. Close the door until it clips into place.
8. Proceed with the power supply installation described in section 2.8 on page 51.



**Figure 10. TX3-TOUCH-S22-C/D/E/F dimensions (front)**



**Figure 11. TX3-TOUCH-S22-C/D/E/F dimensions (back)**



## 2.4 Installing TX3-TOUCH-F22-C/D/E/F

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

---

---

**Attention:** The 22" Touch Screen enclosures are heavy (80 lbs or 37 kg). Never attempt to lift this product by yourself. At least two people should lift it together.

---

The flush mount enclosure mounts directly inside the wall to the wall stud or supporting structure. Mount the enclosure flush with the wall and right-side up (the Mircom logo on the door is on the bottom).

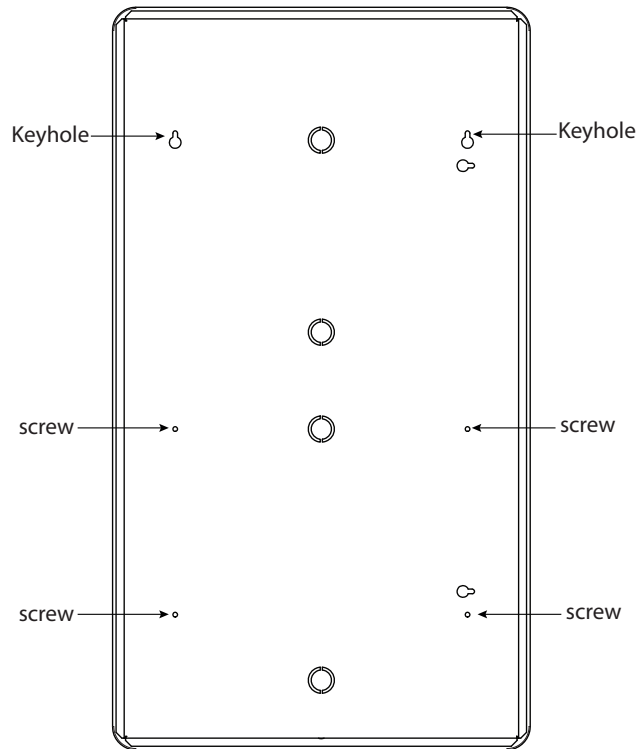
You need:

6 fasteners appropriate for the wall that you are mounting the enclosure on.

### To mount the enclosure

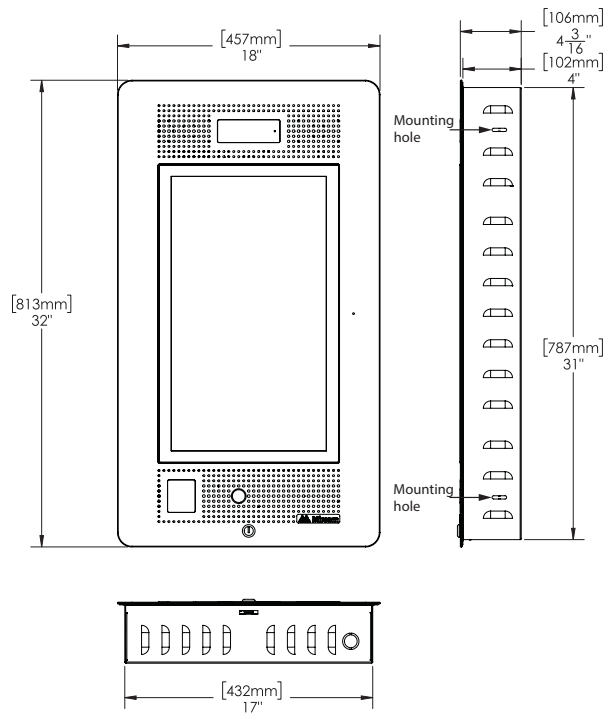
1. Find a suitable location for the flush mount enclosure beside a wall stud. You can mount the enclosure using the keyholes on the back, or the knockouts on the side, or both. The wall must be able to support a weight of 80 lbs (37 kg).
2. Using the enclosure as a template, trace an opening in the wall for the cut out with one side aligned with the side of the wall stud.
3. Cut an opening in the wall 1/8" (3 mm) larger than the trace ensuring that one side is aligned with the wall stud or supporting structure.
4. Insert the enclosure into the wall cutout and using the side of the enclosure as a template mark the hole mounting locations (either keyholes or knockouts or both).

5. If you are using the keyholes, remove the enclosure and place 2 fasteners halfway into the wall into the marked keyhole locations. Then place the enclosure onto the top fasteners and lower it so that the fasteners fit in the narrow part of the keyholes, as shown in Figure 12. Ensure that at least one side is beside a wall stud.

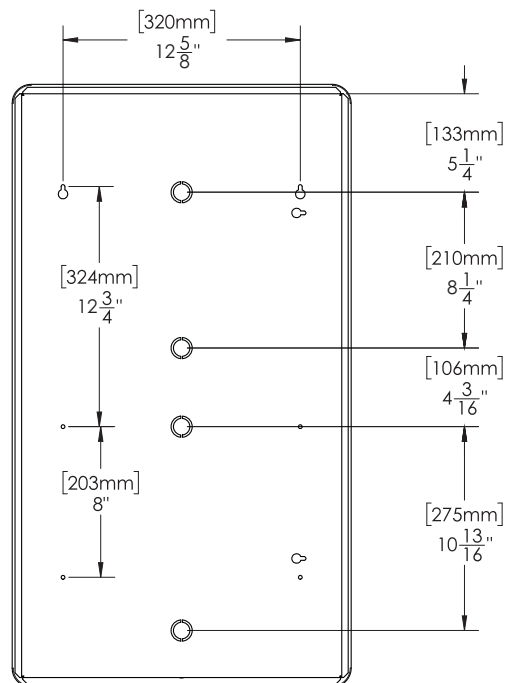


**Figure 12. TX3-TOUCH-F22-C/D/E/F mounting holes**

6. Screw the other four fasteners into the four remaining holes or knockouts.
7. Tighten all fasteners into place.
8. Close the door until it clips into place.
9. Proceed with the power supply installation described in section 2.8 on page 51.



**Figure 13. TX3-TOUCH-F22-C/D/E/F dimensions (front)**



**Figure 14. TX3-TOUCH-F22-C/D/E/F dimensions (back)**

## 2.5 Installing Outdoor Touch Screens

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

To prevent water from entering the unit, use a weather resistant conduit hub. See Figure 17.

**Do not mount TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) in any of the TX3 Kiosks.**

---

---

**Note:** Mircom recommends using the TX3-TOUCH-WR-BB backbox for mounting Outdoor Touch Screens when the wall does not have in-wall wiring or is uneven. Please refer to LT-6912 for installation instructions.

---

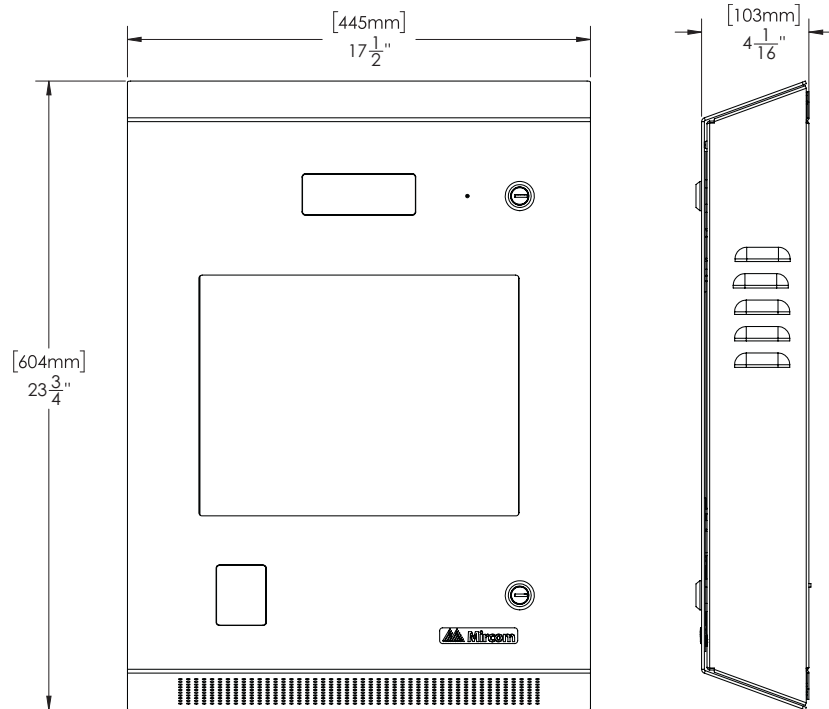
The unit mounts on the wall. Mount the unit with the right side up (the Mircom logo is on the bottom).

### To mount the unit

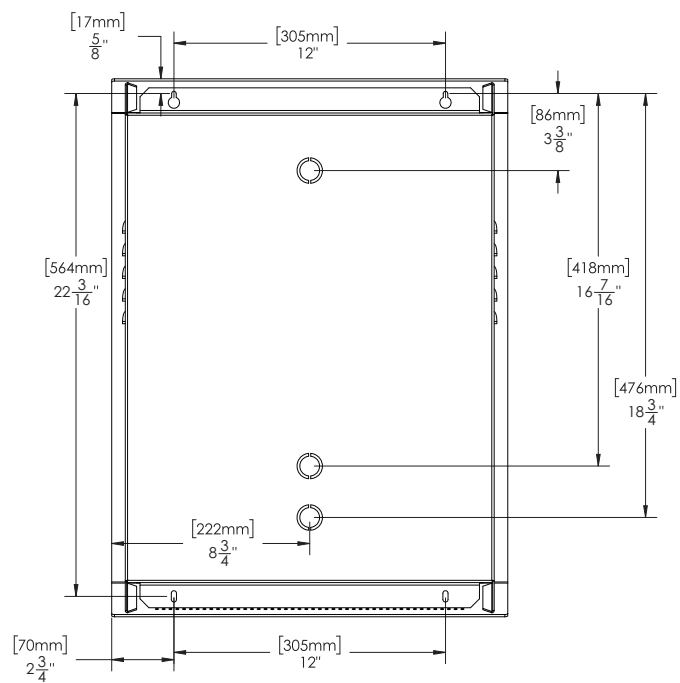
You need:

4 fasteners appropriate for the wall that you are mounting the unit on.

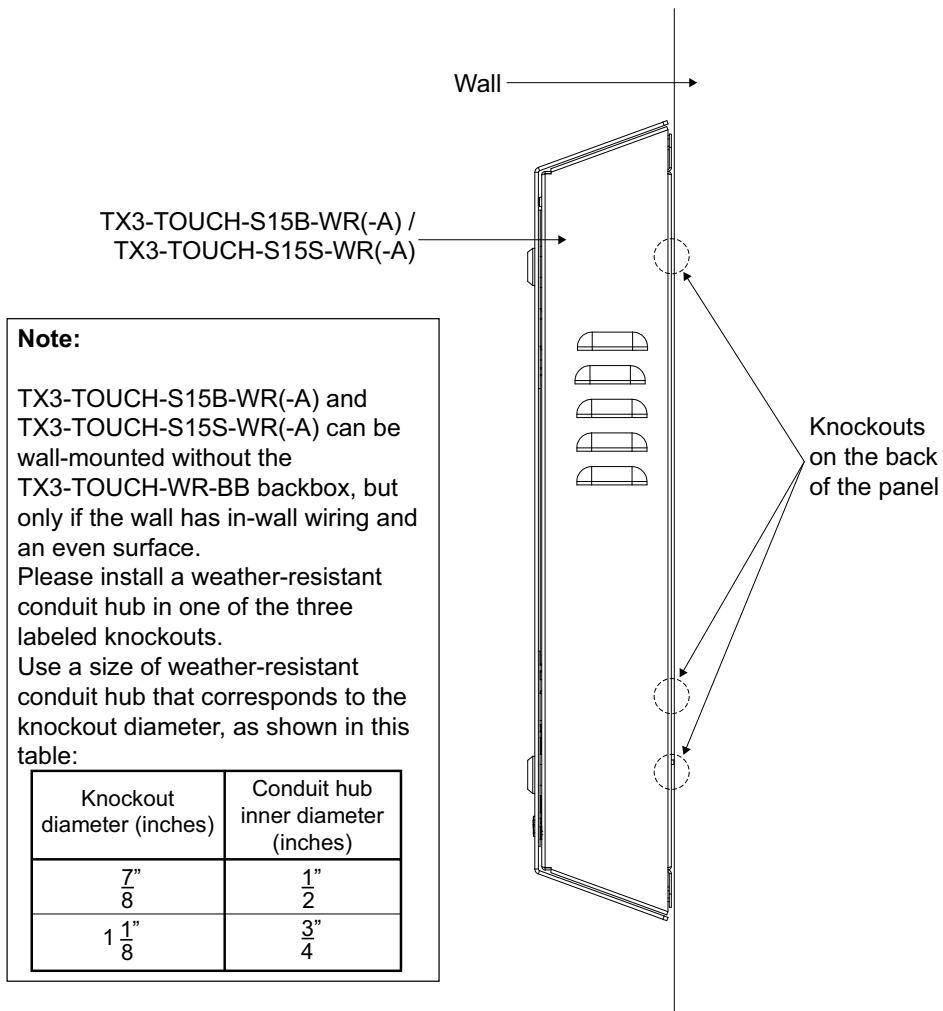
1. Find a suitable location for the unit.
2. Using the unit as a template, mark the back mounting locations of the two keyholes shown in Figure 16. Ensure that at least one side is over a wall stud.
3. Remove the unit and place the fasteners halfway into the wall into the marked hole locations.
4. Place the unit onto the fasteners and lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other two fasteners into the two holes at the bottom of the unit.
6. Tighten all fasteners into place.



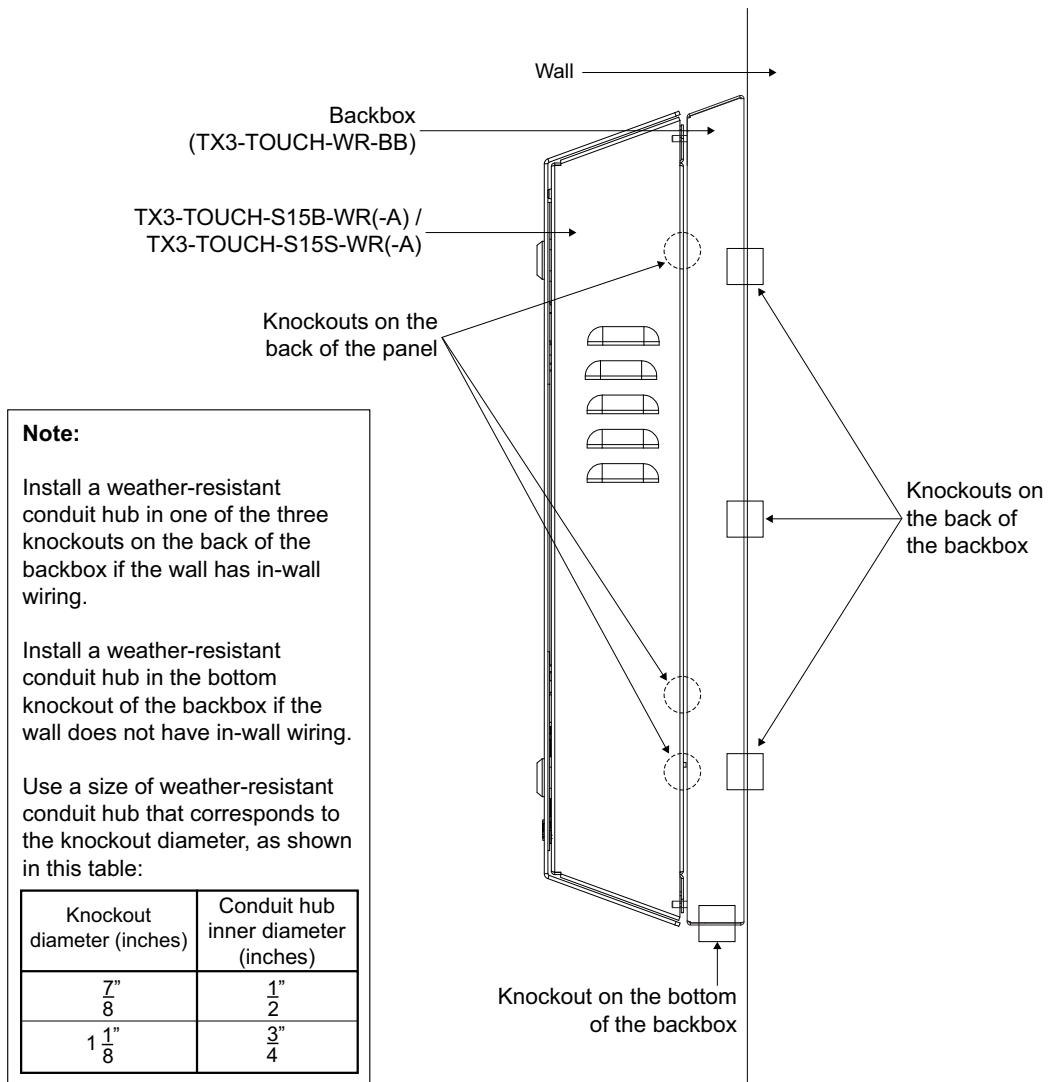
**Figure 15. TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) dimensions (front)**



**Figure 16. TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) dimensions (back)**



**Figure 17. Installing TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) on a wall (without the backbox)**

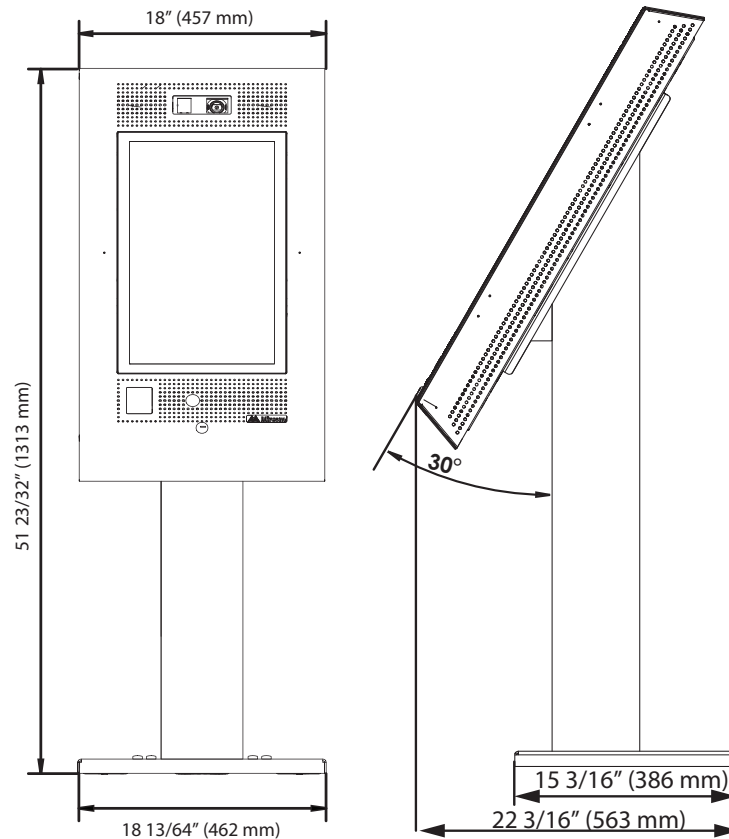


**Figure 18. Installing TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) on a wall with the TX3-TOUCH-WR-BB backbox**

## 2.6 Installing TX3-T-KIOSK2

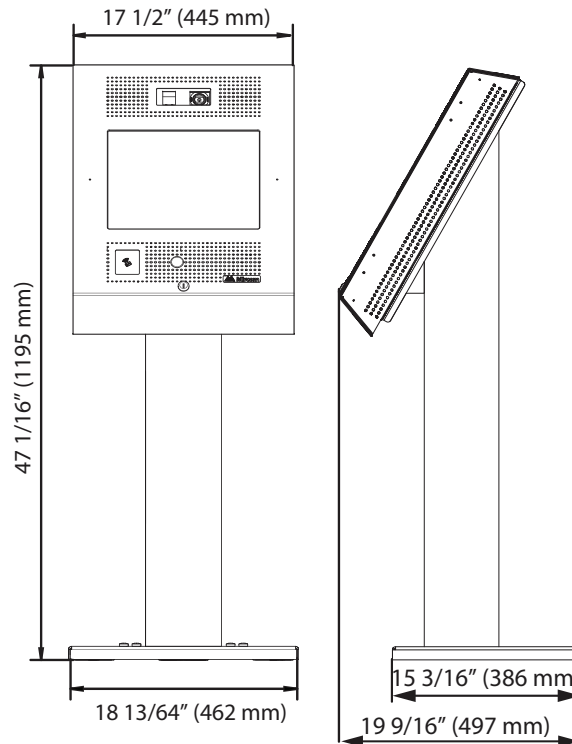
**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

**Do not mount TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) in any of the TX3 Kiosks.**



**Figure 19. Dimensions of TX3-T-KIOSK2 with TX3-TOUCH-S22-C**





**Figure 20. Dimensions of TX3-T-KIOSK2 with TX3-TOUCH-S15-C**

TX3-T-KIOSK2 supports these models:

- TX3-TOUCH-S15-C/D/E
- TX3-TOUCH-S22-C/D/E/F

---

**Attention:** The stand is heavy. Never attempt to lift this product by yourself. At least two people should lift it together.

To ensure that there is enough room for installing the stand, leave at least 4" (102 mm) clearance between the back of the floor bracket and the wall.

Avoid placing the Touch Screen in direct sunlight.

Install the power supply outside the enclosure.

---

The Kiosk mounts to the floor inside the building near the entrance, close to the building power source and telephone infrastructure. Access for the power and communication cables is provided through a cutout in the base plate.

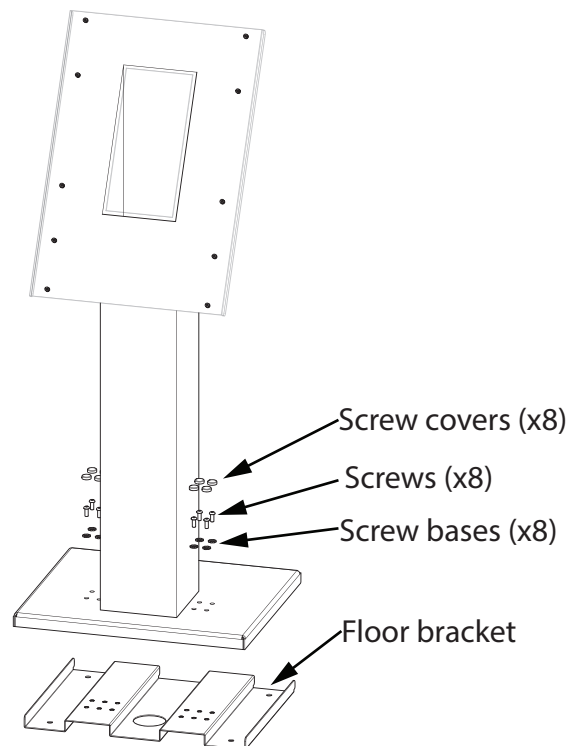
The kit includes:

- 1 x stand
- 1 x floor bracket
- 8 x screws for attaching the stand to the floor bracket
- 8 x screw covers
- 8 x screw bases
- 6 x screws for attaching the Touch Screen to the stand

Weight: 65.5 lb (30 kg)

You need:

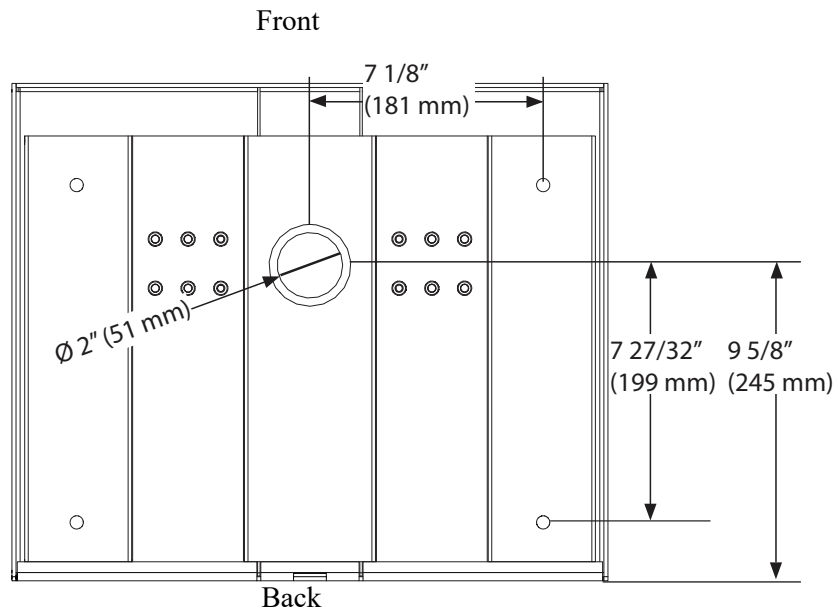
- 4 bolts to attach the base plate to the floor. The bolts need to fit holes that are 13/32" (10 mm) in diameter.



**Figure 21. TX3-T-KIOSK2 components**

1. Ensure that the base plate is aligned with the electrical conduit.
2. Using the base plate as a template, trace an opening on the floor for the cutout and mark the 4 floor bracket mounting hole locations.

Figure 22 shows the dimensions of the floor bracket.



**Figure 22. TX3-T-KIOSK2 dimensions (from below)**

3. Cut an opening in the floor for the electrical and communication cables.
4. Run the wires through the floor bracket opening.
5. Secure the floor bracket to the floor using 4 bolts in the floor bracket mounting holes shown in Figure 22. The holes are 13/32\" (10 mm) in diameter.

### To fit the TX3-T-KIOSK2 stand on the floor bracket

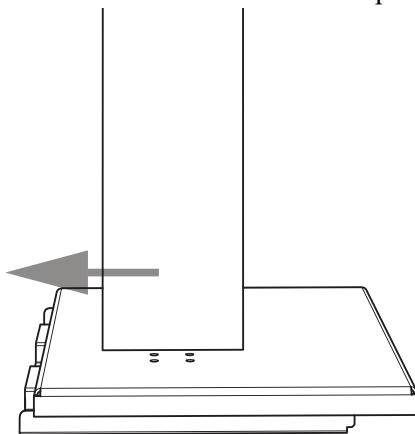
---

**Attention:** The stand is heavy. Never attempt to lift this product by yourself. At least two people should lift it together. It weighs 65.5 lb (30 kg).

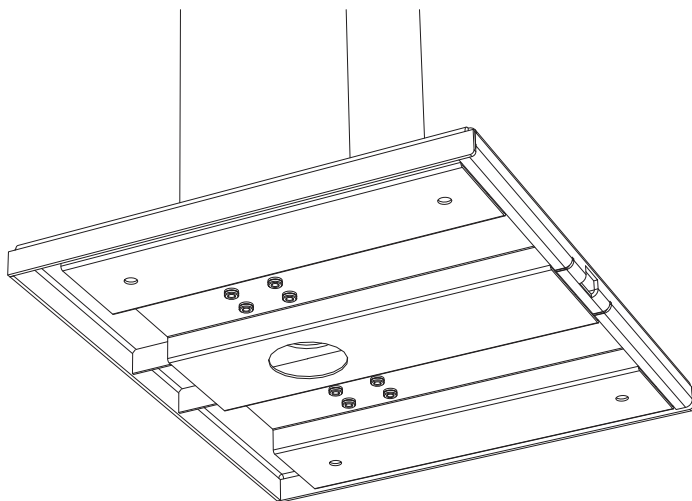
---

1. Run the wires through the stand and out the hole at the top.
2. Place the stand on the floor bracket, and slide it forwards so that it rests on top of the floor bracket.

3. Ensure that the floor bracket fits into the back lip of the stand..

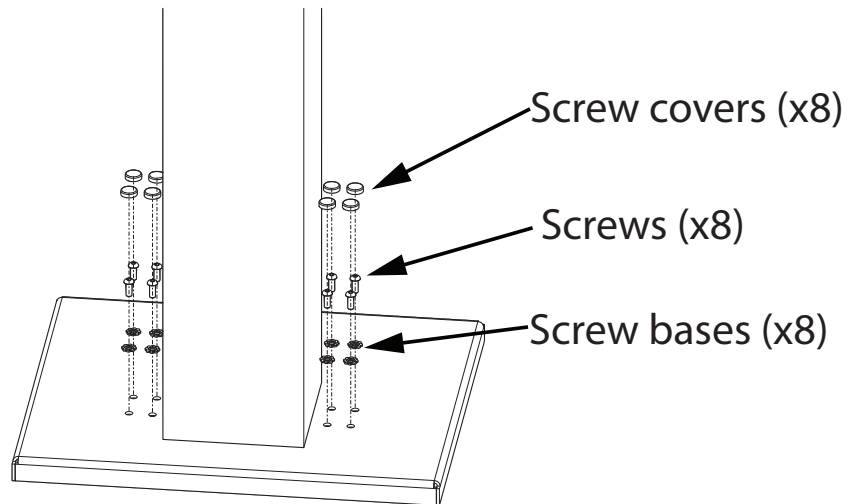


**Figure 23. Fit the stand on the floor bracket**



**Figure 24. Fit the stand on the floor bracket (as seen from below)**

4. Secure the stand onto the floor bracket using the screw cover bases, screws, and screw covers as show in Figure 25.



**Figure 25. Attach the stand to the floor bracket**

### To mount the Touch Screen on the stand

TX3-T-KIOSK2 supports these models:

- TX3-TOUCH-S15-C/D/E
- TX3-TOUCH-S22-C/D/E/F

---

**Warning:** Use only surface mount Touch Screens with this stand. **Do not mount TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) in any of the TX3 Kiosks.**

---

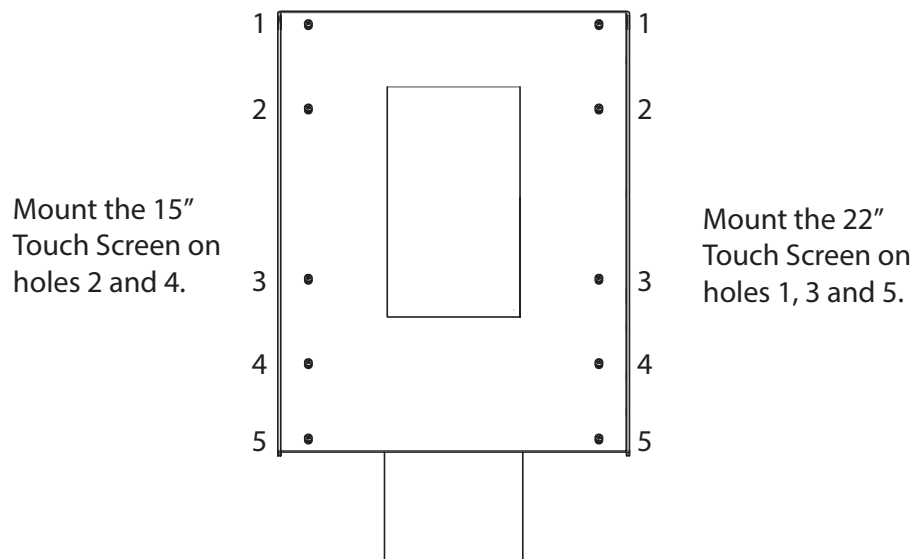


---

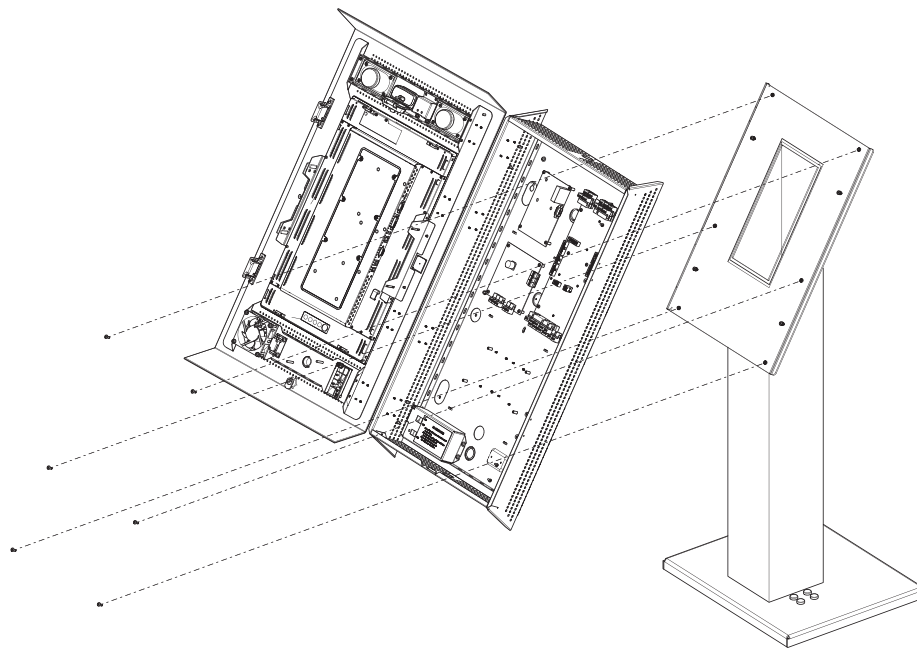
**Attention:** The 22" Touch Screen enclosure is heavy. Never attempt to lift this product by yourself. At least two people should lift it together. It weighs 80 lbs or 37 kg.

---

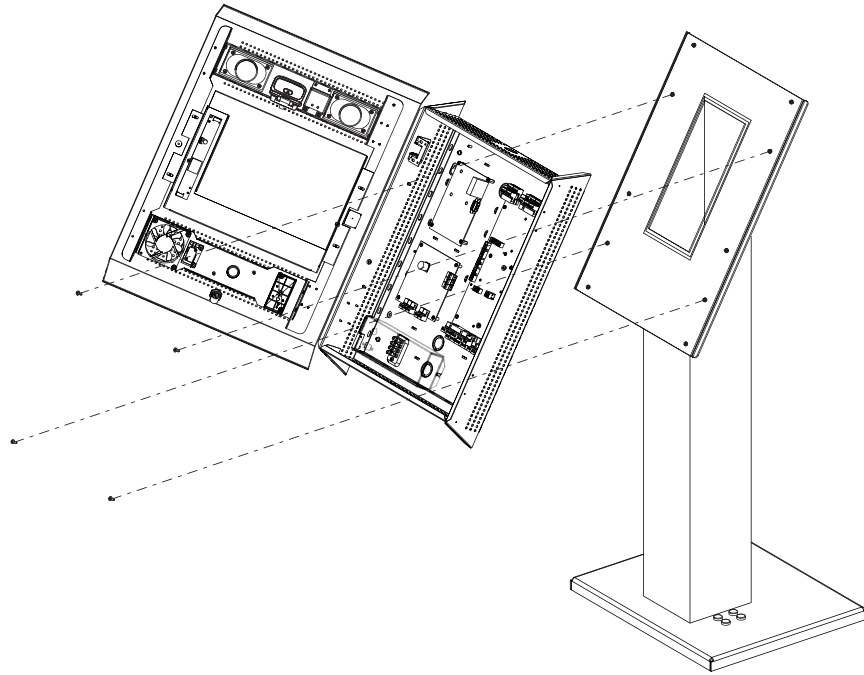
1. Align the top two mounting holes of the Touch Screen with the top holes on the stand. See Figure 26.
2. Insert screws into the Touch Screen's top mounting holes and lower the Touch Screen so that the screws fit in the narrow part of the mounting holes.
3. Secure the Touch Screen with the remaining screws. Use 6 screws for the 22" Touch Screen and 4 screws for the 15" Touch Screen.
4. Proceed with the power supply installation described in section 2.8 on page 51.



**Figure 26. Mounting holes**



**Figure 27. Mount TX3-TOUCH-S22-C/D/E/F on the stand**



**Figure 28. Mount TX3-TOUCH-S15-C/D/E on the stand**

## 2.7 Installing TX3-T-KIOSK3

---

**Warning:** To prevent overheating, do not install any of the TX3 Touch Screens in direct sunlight.

**Do not mount TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) in any of the TX3 Kiosks.**

---

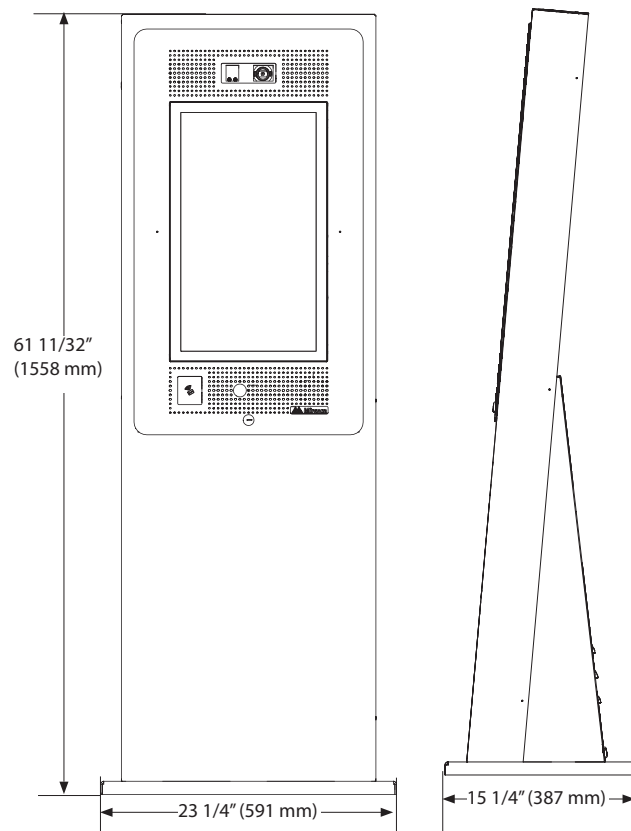
**Attention:** The stand is heavy. Never attempt to lift this product by yourself. At least two people should lift it together.

To ensure that there is enough room for installing the stand, leave at least 4" (102 mm) clearance between the back of the floor bracket and the wall.

To ensure that there is enough room for opening the door after the stand is installed, leave at least 25" (635 mm) clearance between the back of the floor bracket and the wall.

**Install the power supply outside the enclosure.**

---



**Figure 29. TX3-T-KIOSK3 dimensions**



The Kiosk mounts to the floor inside the building near the entrance, close to the building power source and telephone infrastructure. Access for the power and communication cables is provided through a cutout in the base plate.

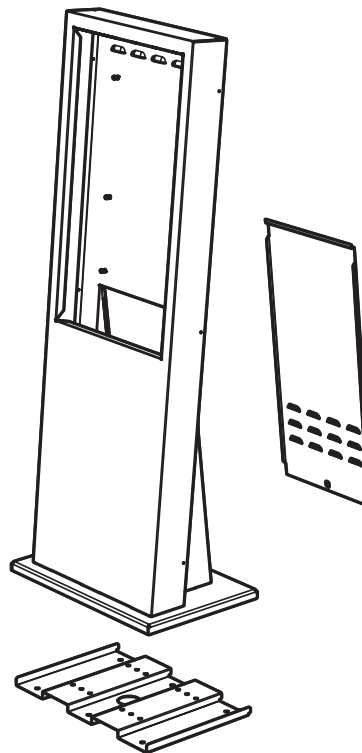
The kit includes:

- 1 x pedestal
- 1 x floor bracket
- 1 x door
- 6 x #8-32 x 1/4 screws for attaching the Touch Screen
- 12 x #1/4-20 x 5/8 screws for attaching the stand to the floor bracket
- 2 x keys

Weight: 74 lb (34 kg)

You will need:

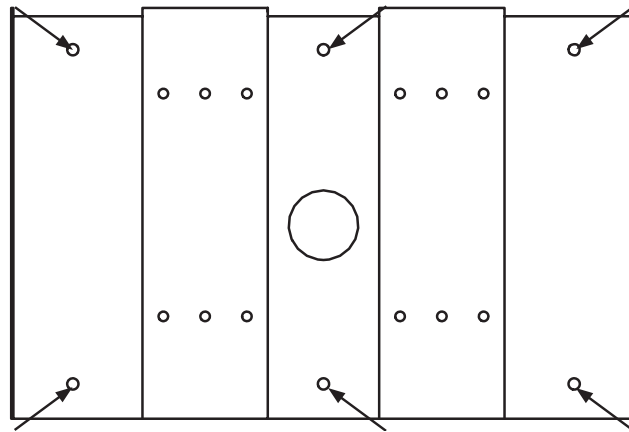
- 4 bolts to attach the base plate to the floor. The bolts need to fit holes that are 13/32" (10 mm) in diameter.



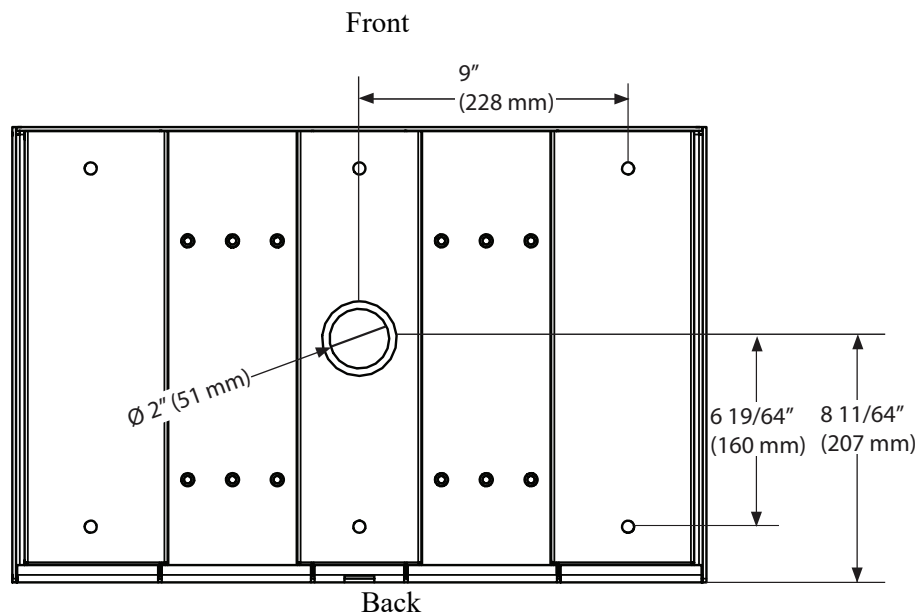
**Figure 30. TX3-T-KIOSK3 components**

### To attach the floor bracket to the floor

1. Ensure that the floor bracket is aligned with the electrical conduit.
2. Using the floor bracket as a template, trace an opening on the floor for the cutout and mark the 6 floor bracket mounting hole locations as shown in Figure 31.



**Figure 31. Floor bracket mounting holes**



**Figure 32. TX3-T-KIOSK3 dimensions (from below)**

3. Cut an opening in the floor for the electrical and communication cables.
4. Run the wires through the floor bracket opening.

5. Secure the floor bracket to the floor using 6 bolts through the floor bracket mounting holes shown in Figure 31. The holes are 13/32" (10 mm) in diameter.

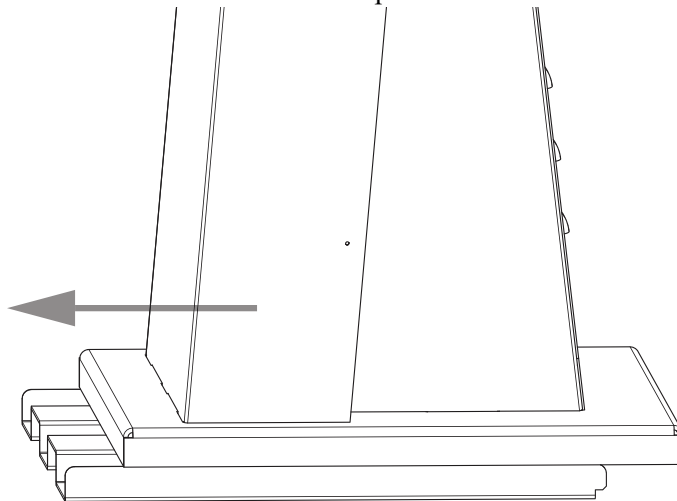
### To fit the TX3-T-KIOSK3 stand on the floor bracket

---

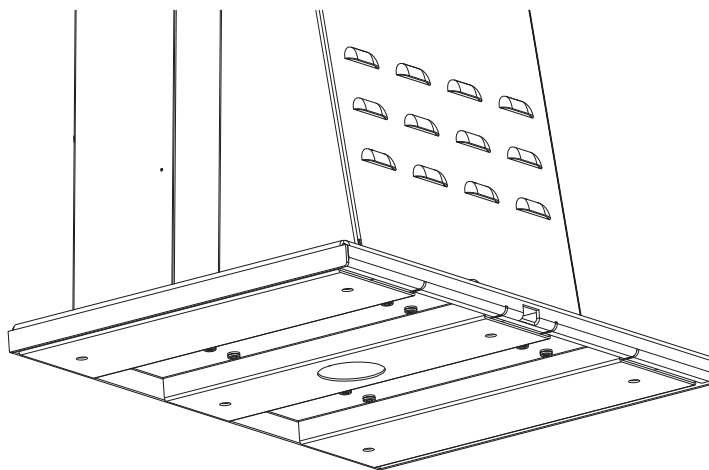
**Attention:** The stand is heavy. Never attempt to lift this product by yourself. At least two people should lift it together. It weighs 74 lb (34 kg).

---

1. Fit the back lip of the stand into the notches in the floor bracket, and tilt the stand forwards so that it rests on top of the floor bracket.



**Figure 33. Fit the stand on the floor bracket**



**Figure 34. Fit the stand on the floor bracket (from below)**

### To fit the Touch Screen on the stand

---

**Warning:** Use only the 22 inch flush mount Touch Screen (TX3-TOUCH-F22) with this stand. **Do not mount TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) in any of the TX3 Kiosks.**

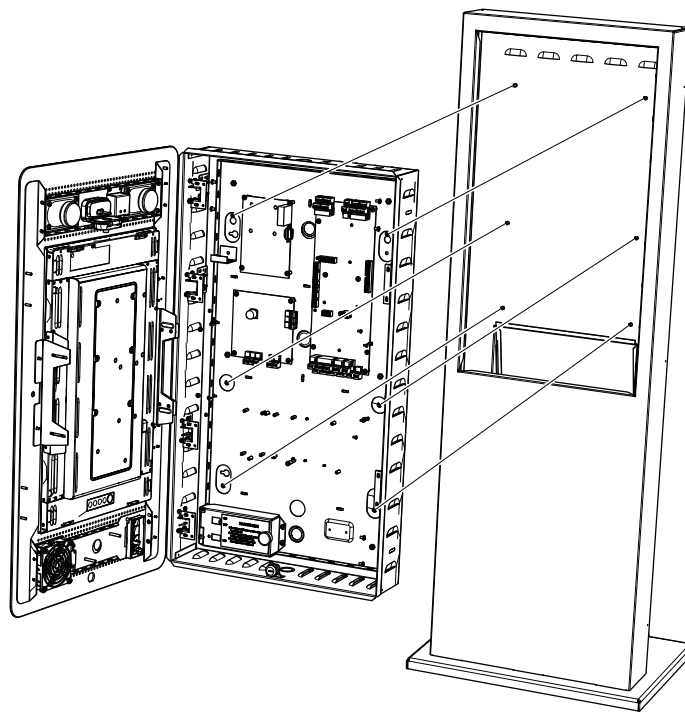
---

---

**Attention:** The 22" Touch Screen enclosure is heavy. Never attempt to lift this product by yourself. At least two people should lift it together.

---

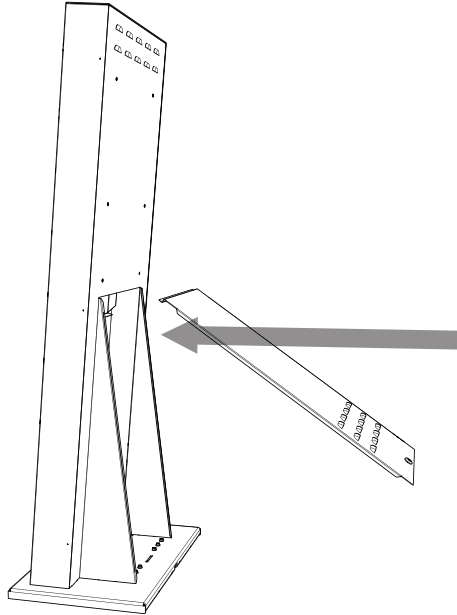
1. Fit the Touch Screen on the six studs on the stand.
2. Attach the 6 included screws to the studs.
3. Run the wires through the knockout at the bottom of the Touch Screen.



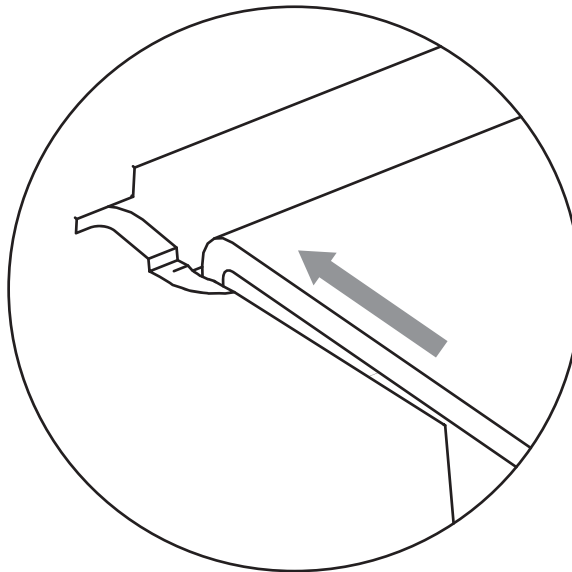
**Figure 35. Mount TX3-TOUCH-S22 on the stand**

### To Attach the door

1. Fit the door into the opening so that it rests on the ledge.

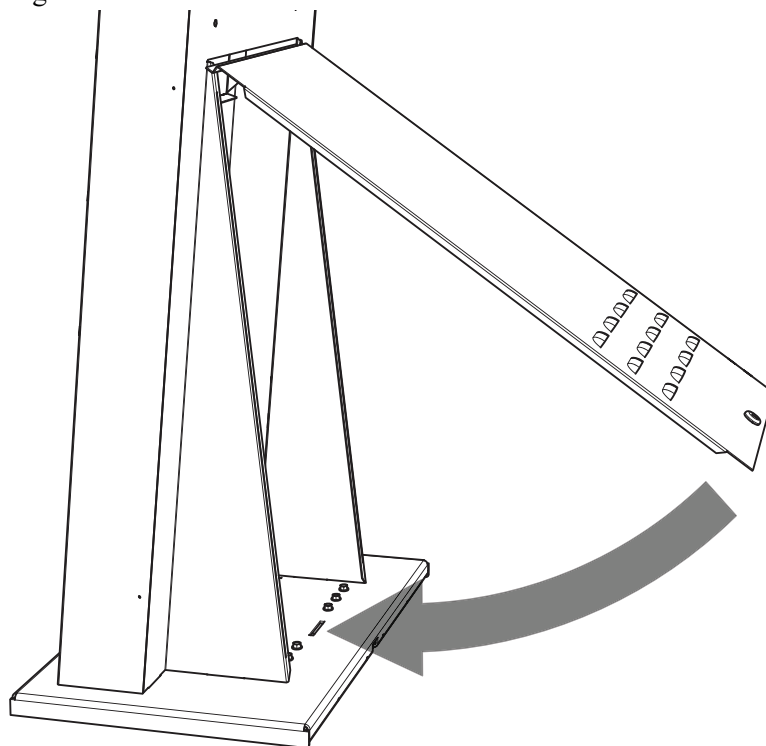


**Figure 36. Fit the door on the stand**



**Figure 37. Close-up showing the door fitting on the ledge**

2. Swing the door down and lock it.



**Figure 38. Swing the door closed**

3. Proceed with the power supply installation described in section 2.8 on page 51.

## 2.8 Installing the TX3-PS24-5A Power Supply Enclosure

The Touch Screen TX3-PS24-5A external power supply is a 156 W, 24 V single output switching power supply encased inside a metal enclosure. A voltage selectable switch is located on the side of the power supply and is factory set to 115V but can be switched to 230V.

---

**Attention:** Install the power supply indoors.

---

### To set the voltage on the Switching Power Supply

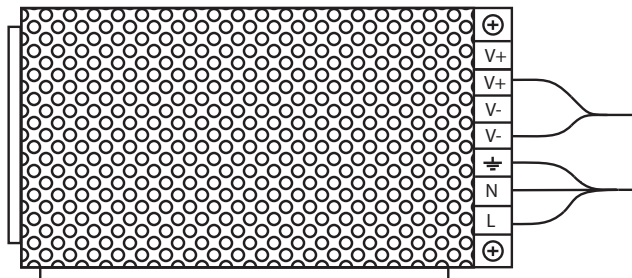
1. Ensure that the TX3 unit is off and that all power is disconnected.

---

**Warning:** The power must be turned off before the switching power supply is accessed. Failure to do so may result in damage to the equipment or electric shock that can lead to death.

---

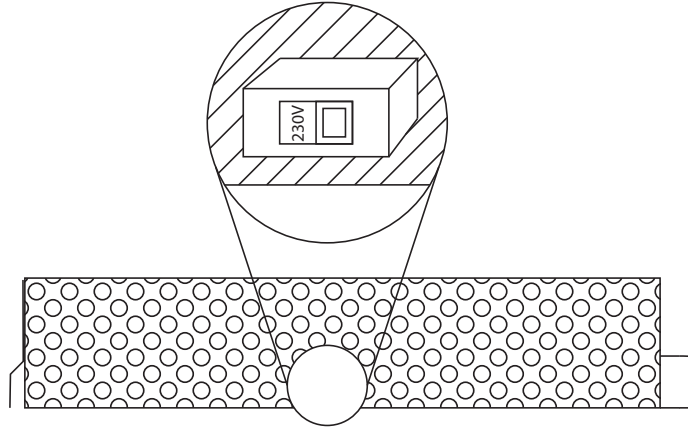
2. Open the switching power supply box using the key for the TX3 unit. The switching power supply unit is secured inside the box by metal guides and two screws on either side of the terminal block. Unscrew and remove the screws on both sides of the terminal block.



**Figure 39. Inside the switching power supply box**

3. Lift the switching power supply unit out of its box to access the red voltage selection switch.

4. Switch the voltage selection switch to the required voltage level. Place a flathead screwdriver in between one of the holes in the chassis to access the switch. By default it is set to 115 Volts.

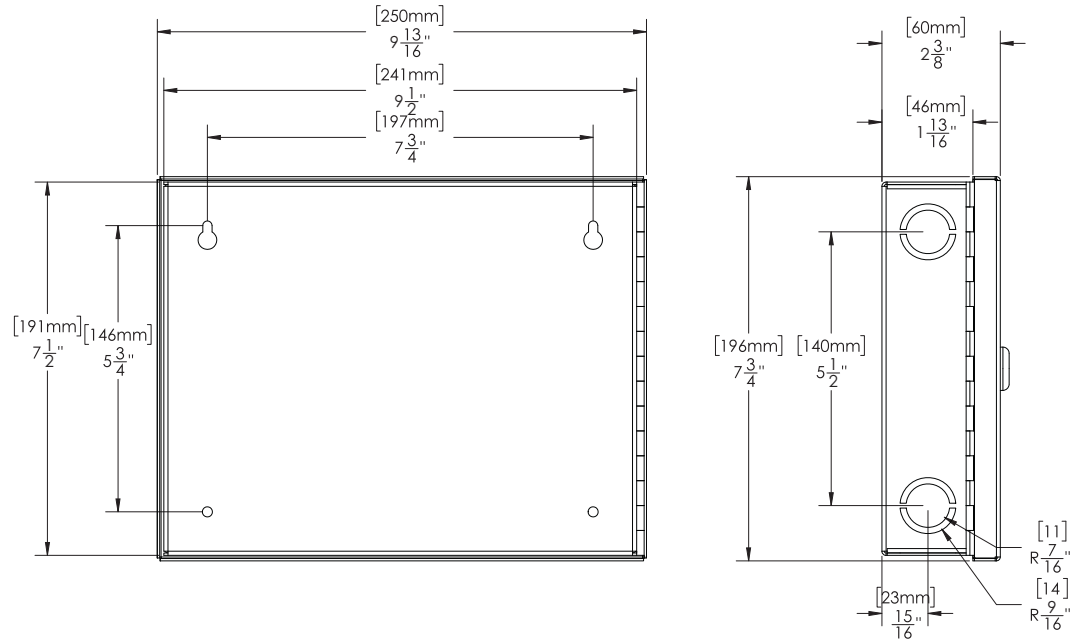


**Figure 40. Power supply voltage selection switch**

5. Place the switching power supply back into the box using the metal guides to position it and then replace the screws on both sides of the terminal block to secure it into the box.
6. Reconnect the power.

The external power supply connects to the building power AC power supply. It is recommended that the unit is powered by its own dedicated electrical outlet to protect it from excessive power surges and current fluctuations.





**Figure 41. TX3-PS24-5A dimensions**

### To surface mount the power supply enclosure

**Attention:** Install the power supply outside the Touch Screen enclosure.

You need:

4 fasteners appropriate for the wall that you are mounting the enclosure on.

1. Find a suitable location for the power supply enclosure, such as over a wall stud.
2. Using the enclosure as a template, mark the two top mounting hole locations as indicated in Figure 41. Ensure that at least one side is over a wall stud.
3. Remove the enclosure and place two wall fasteners halfway into the marked hole locations.
4. Place the enclosure onto the fasteners and lower it so that the fasteners fit in the narrow part of the keyholes.
5. Screw the other two fasteners into the two remaining holes.
6. Tighten all four fasteners into place.

**Note:** The enclosure can also be mounted directly onto the drywall using anchors.

# 3 Touch Screen System and Setup

This chapter describes the basic Touch Screen system, main panel, controller board components and provides information about its operation and setup.

## **This chapter explains**

- Installation Prerequisites
- Touch Screen System
- TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E Inside Door, Boards, and Grounding
- TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F Inside Door, Boards, and Grounding
- Outdoor Touch Screen Door, Boards, and Grounding
- Lobby Controller Board
- Connecting to the External Power Supply
- Installing the TX3-TOUCH-UPS-KIT Uninterruptible Power Supply
- Turning the Touch Screen On and Off
- Installing the Postal Lock on TX3 Touch Indoor Units
- Installing the Telephone Lines
- Ethernet
- Beginning Configuration
- Installing Other Optional and Replacement Components
- RS-485
- Installing the P1264 IP camera
- Installing the Optional TX3-DELTA5 Card Reader

## 3.1 Installation Prerequisites

- Verify that the building telephone infrastructure is operational. When wiring an NSL installation it may be necessary to check each resident's line.
- Ensure there is a provision for a ground circuit. The Voice Access System assembly must be grounded by a qualified electrician. An improperly grounded unit can result in equipment malfunction and void the warranty.
- Use the latest Voice Access System controller firmware. Mircom periodically updates panel firmware and Configurator Software to add features and correct any minor inconsistencies. For information about the latest firmware or software visit the 'Manuals and Downloads' section of the Mircom website at [www.mircom.com](http://www.mircom.com).

## 3.2 Touch Screen System

The TX3 Touch Screen may be networked with a combination of Voice Access and Card Access Units through a peer-to-peer RS-485 connection.

Touch Screen is capable of providing ADC or NSL voice access from a single panel or from a networked system. Each outside telephone line requires a separate line to the control panel inside the Touch Screen.

The following figures depict various Touch Screen network scenarios.

---

**Note:** Install all transformers and power supplies outside the Touch Screen enclosure.

If the Touch Screen has a version of Windows lower than 10, use the TX3-TOUCH-UPS-KIT Uninterruptible Power Supply. Alternatively, use a 500 VA uninterruptible power supply with 15 inch Touch Screens, and a 1000 VA uninterruptible power supply with 22 inch Touch Screens.

If the Touch Screen has Windows 10, then a UPS is not required. Touch Screens with Windows 10 have an **SO-440/ SO-441/ SO-411** sticker with the version **2.15.7** or higher on the PC board.

The TX3-TOUCH-UPS-KIT is not required with TX3-TOUCH-F15-E, TX3-TOUCH-S15-E, TX3-TOUCH-F22-F, TX3-TOUCH-S22-F, TX3-TOUCH-S15B-WR-A, and TX3-TOUCH-S15S-WR-A.

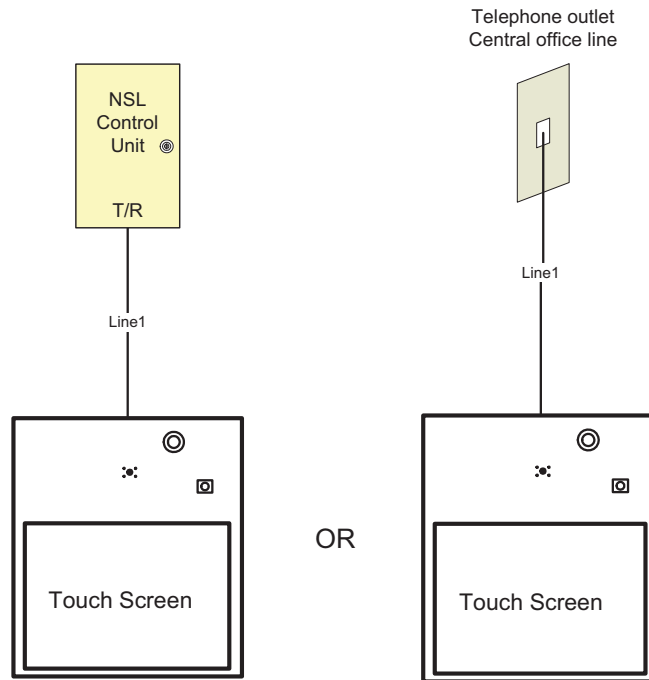
---

All wiring is a maximum length of 1000 ft. The RS-485 wiring maximum length is 4000 ft.

All units use the TX3-PS24-5A power supply. Refer to section 2.8 on page 51 or document LT-1094 Power Supply Voltage Selection. The door strike power supply depends on the door strike power requirements.

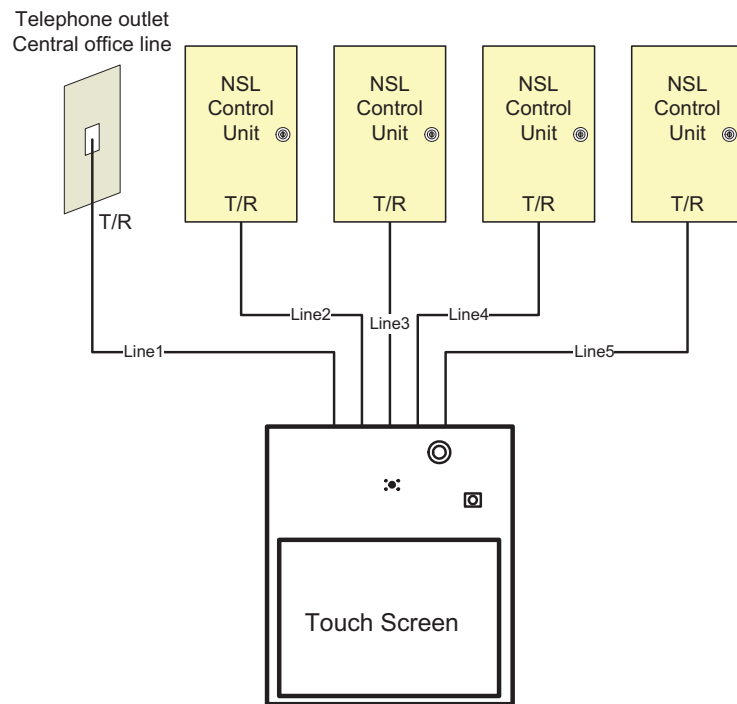
### 3.2.1 Single Touch Screen

Figure 42 shows the simplest configuration for an ADC or NSL telephone system.



**Figure 42. Single Touch Screen**

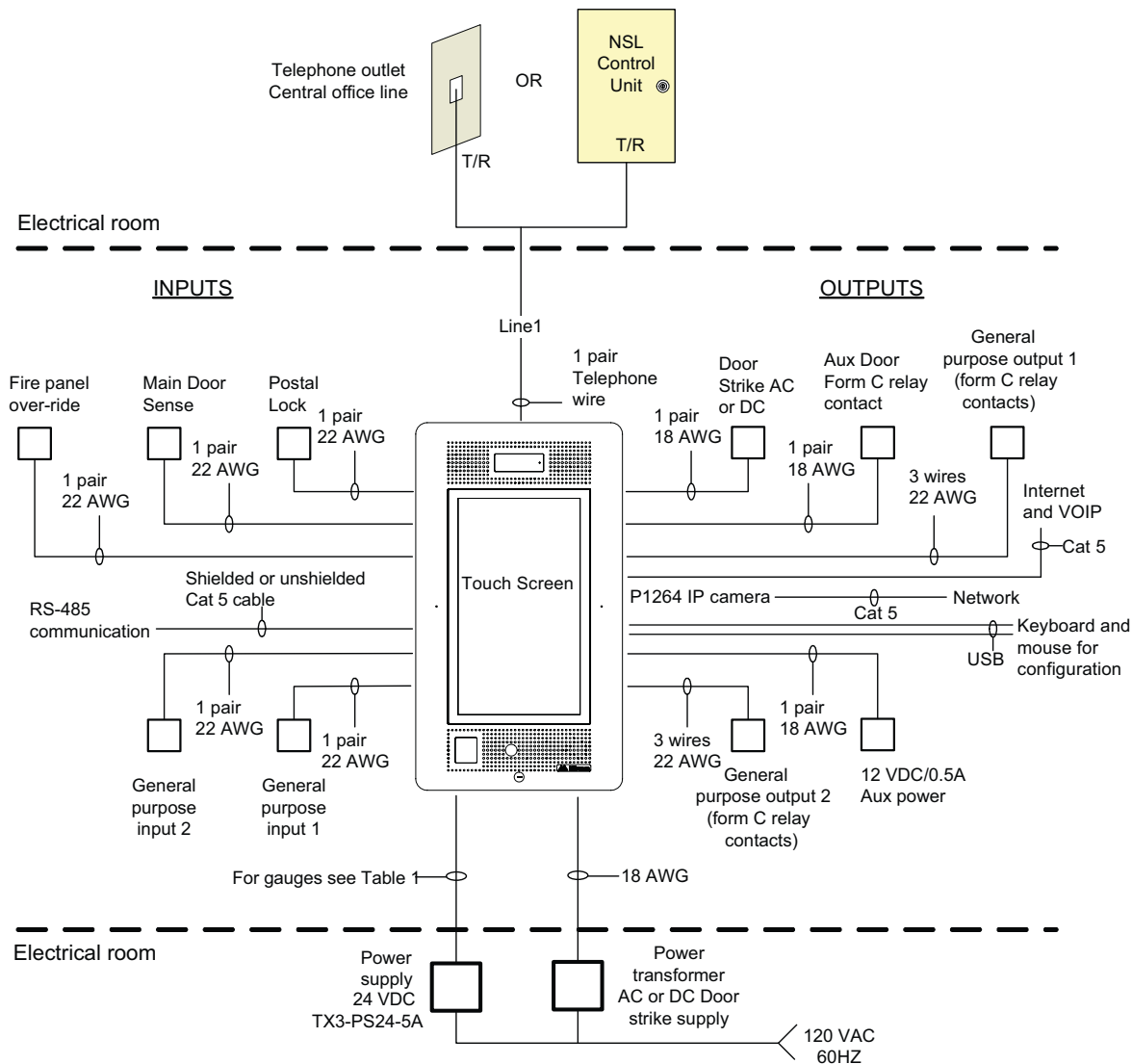
Figure 43 shows a configuration using one Touch Screen connected to one ADC line and four NSL lines.



**Figure 43. Single Touch Screen with ADC and NSL Lines**

### 3.2.2 Touch Screen Field Wiring

Figure 44 shows the inputs and outputs for the Touch Screen.



**Figure 44. Touch Screen wiring**

Unless specified otherwise, all wiring is a maximum length of 1000 ft (304.8 m).

RS-485 maximum length: 4000 feet (1219.2 m).

The door strike power supply depends on the door strike power requirements.

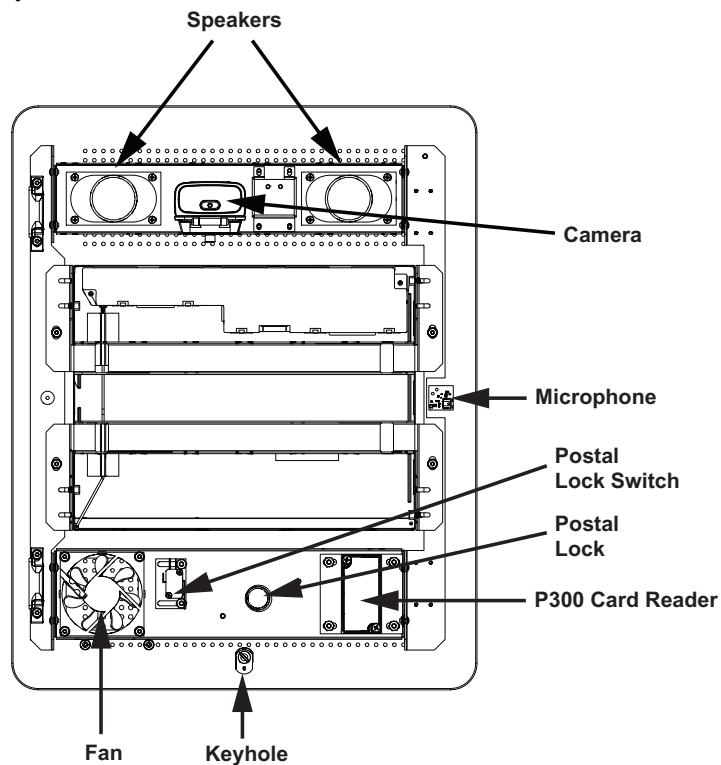
See section 3.7.1 on page 73 for the maximum power supply wire distances.

### 3.3 TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E Inside Door, Boards, and Grounding

#### 3.3.1 Inside Door

The inside doors of TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E contain the following components as shown in Figure 45:

- Speakers
- Camera
- Postal Lock (*optional*)
- Fan (*optional*)
- Microphone
- P300 Card Reader
- Keyhole



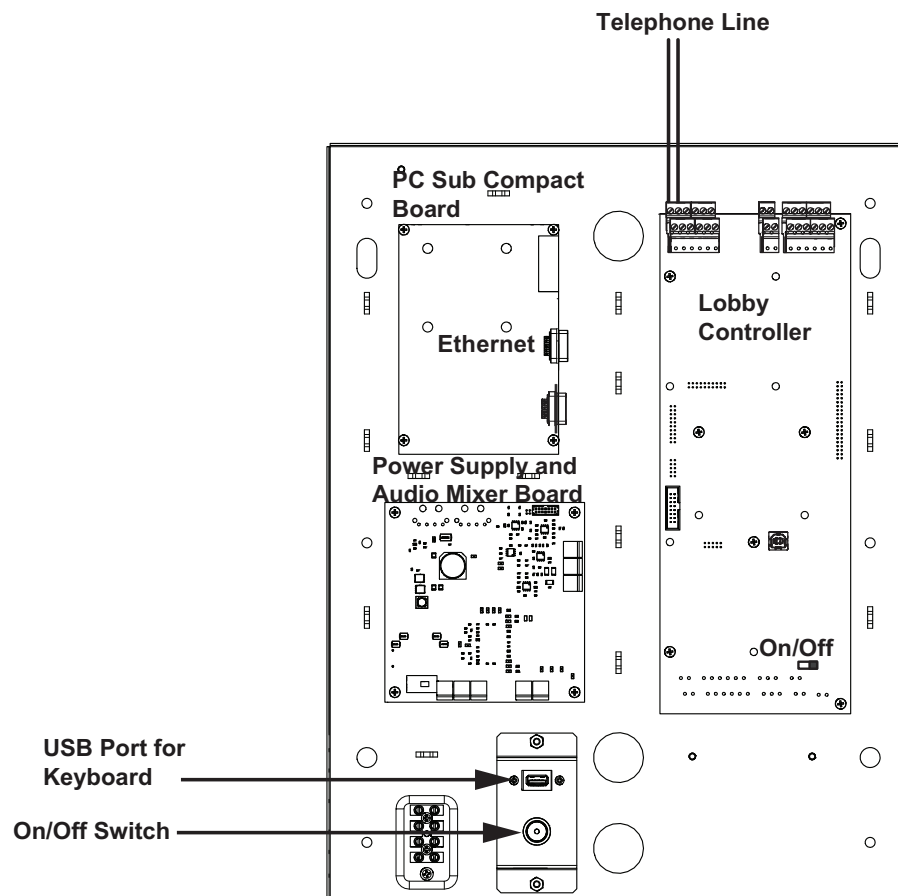
**Figure 45.** TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E inside door

### 3.3.2 Controller Boards

The TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E contain the following components and controller boards as shown in Figure 46 and Figure 47:

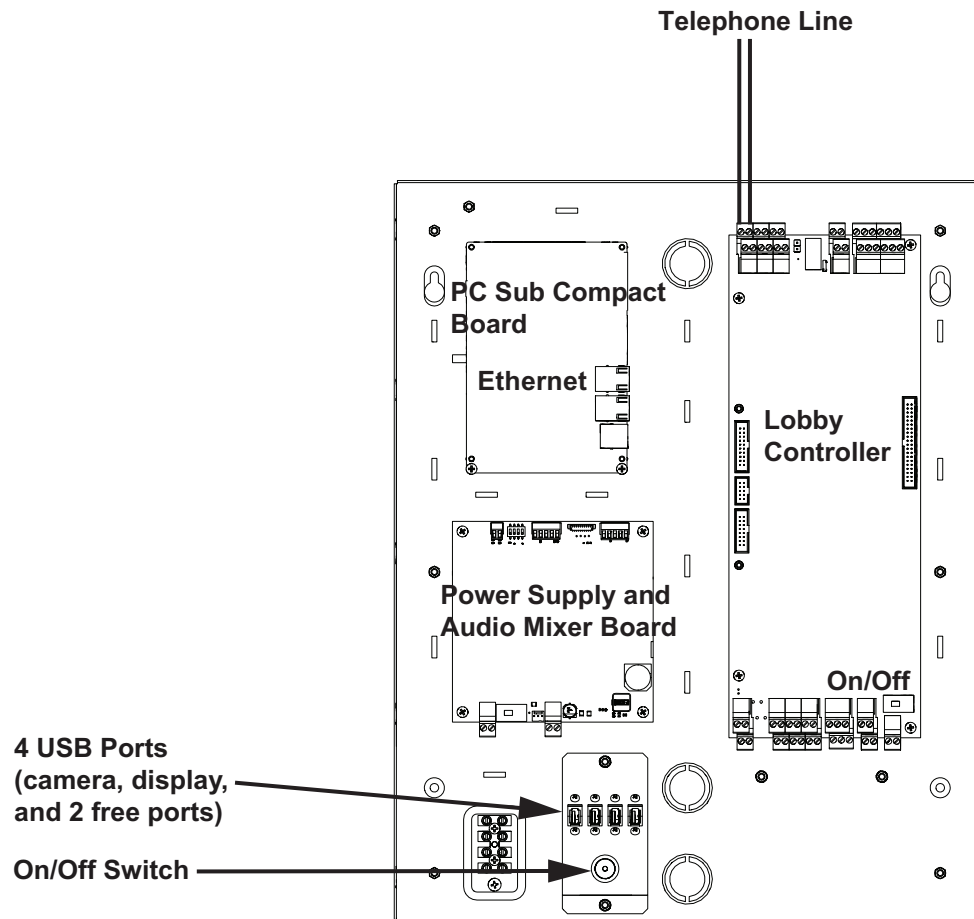
- On/Off Switch
- USB Port for keyboard configuration
- Lobby Controller Board (also called Telephone Access controller board)
- PC Sub Compact Board
- Power Supply and Audio Mixer Board

To access the panel, unlock the door and swing it open.



**Figure 46. Controller board panel for TX3-TOUCH-F15-C/D and TX3-TOUCH-S15-C/D**





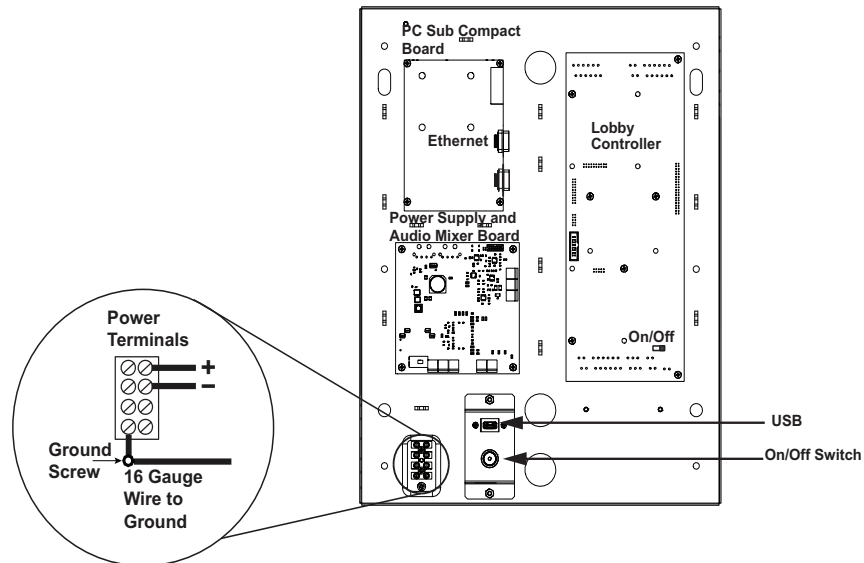
**Figure 47. Controller board panel for TX3-TOUCH-F15-E and TX3-TOUCH-S15-E**

### 3.3.3 Grounding

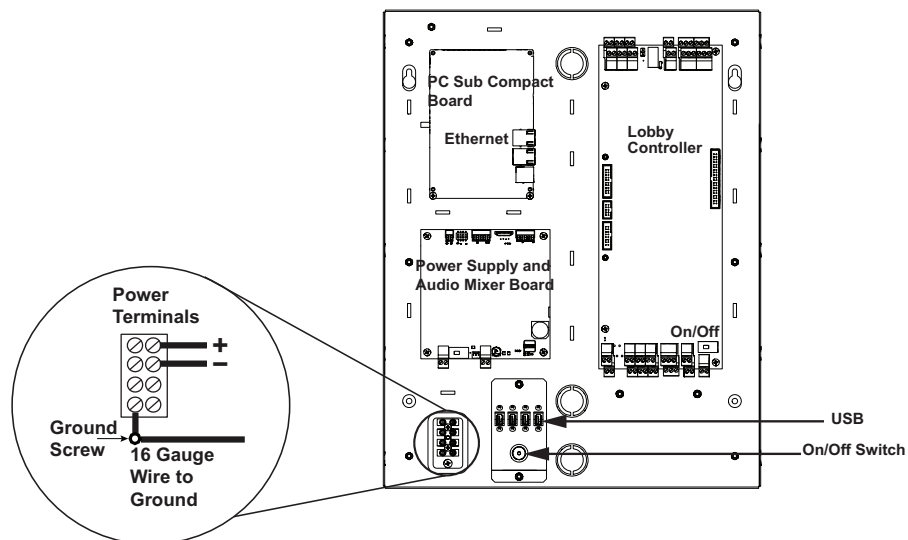
Grounding reduces the risk of electrical shock by providing an alternate escape route for the electrical current.

## To ground TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E

1. The ground terminal is shown in Figure 48 and Figure 49.

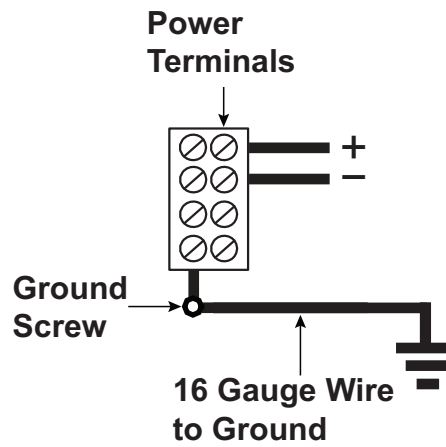


**Figure 48. Ground and power terminals on TX3-TOUCH-F15-C/D and TX3-TOUCH-S15-C/D**



**Figure 49. Ground and power terminals on TX3-TOUCH-F15-E and TX3-TOUCH-S15-E**

2. Attach the ground screw to a suitable grounding wire and connect it to the site ground, as shown in Figure 50.

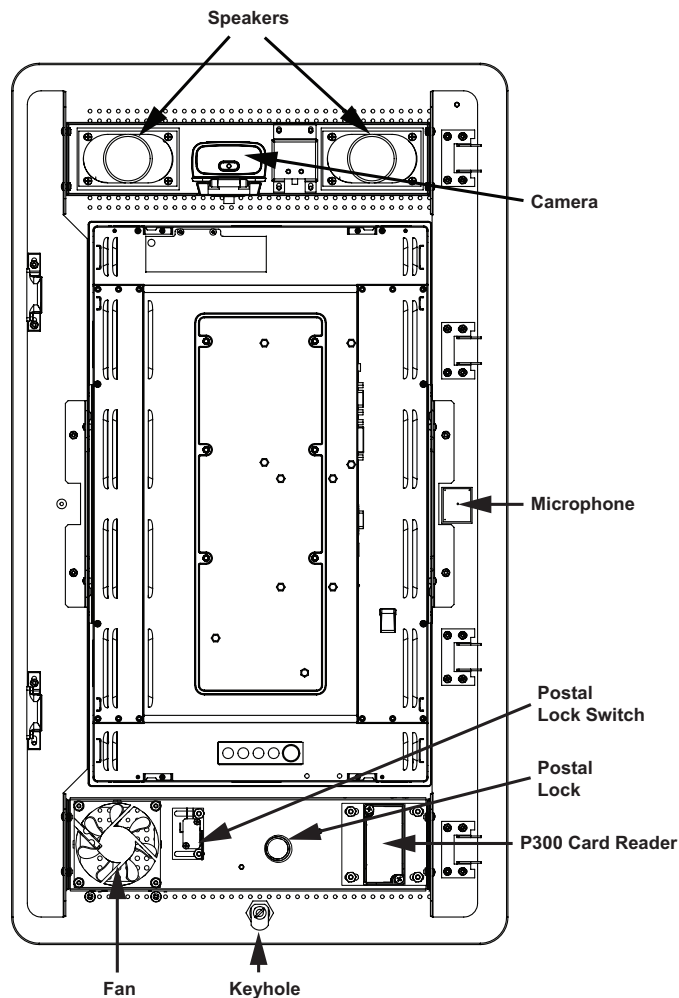


**Figure 50. Grounding TX3-TOUCH-F15-C/D/E and TX3-TOUCH-S15-C/D/E**

### 3.4 TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F Inside Door, Boards, and Grounding

The 22" Touch Screen inside doors contain the following components as shown in Figure 51:

- Speakers
- Camera
- Postal Lock (*optional*)
- Fan (*optional*)
- Microphone
- P300 Card Reader
- Keyhole



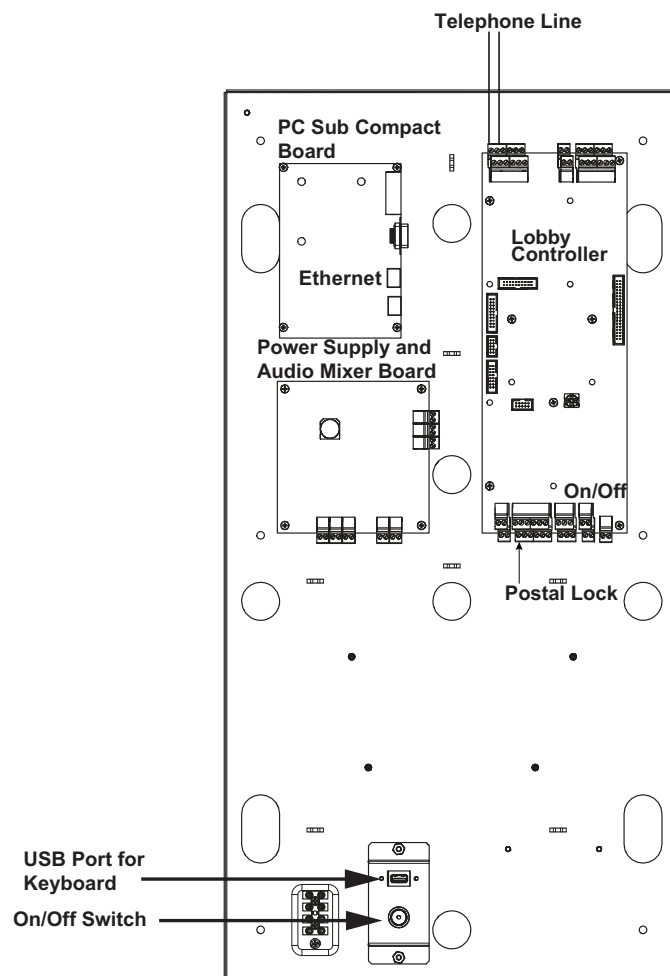
**Figure 51. TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F inside door**

### 3.4.1 Controller Boards

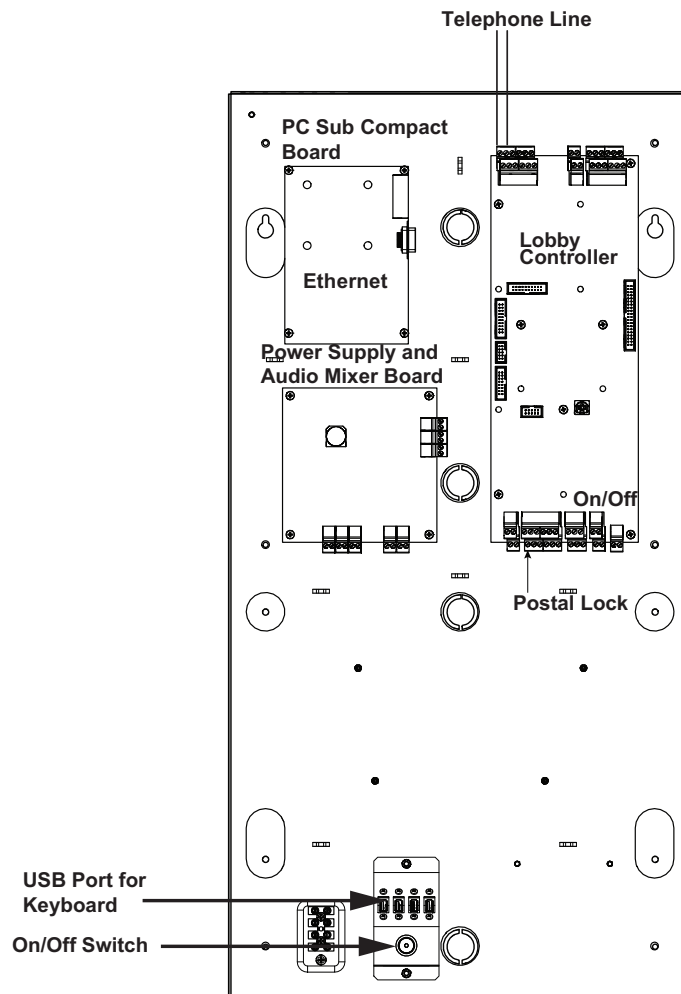
The 22" Touch Screen Panel contains the following components and controller boards as shown in Figure 52 and Figure 53:

- On/Off Switch
- USB Port for keyboard configuration
- Lobby Controller Board (also called Telephone Access controller board)
- PC Sub Compact Board
- Power Supply and Audio Mixer Board

To access the panel, unlock the door and swing it open.



**Figure 52. Controller Board Panel for TX3-TOUCH-F22-C/D/E and TX3-TOUCH-S22-C/D/E**



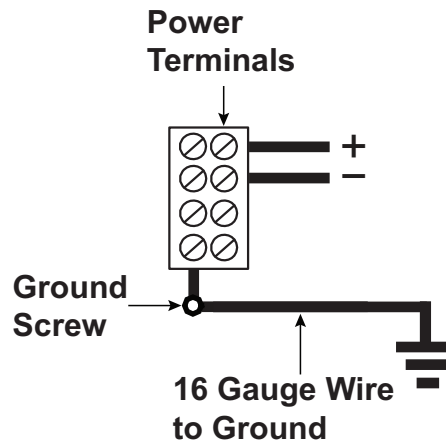
**Figure 53. Controller Board Panel for TX3-TOUCH-F22-F and TX3-TOUCH-S22-F**

### 3.4.2 Grounding

Grounding reduces the risk of electrical shock by providing an alternate escape route for the electrical current.

#### To ground the 22" Touch Screen

1. Attach the ground screw to a suitable grounding wire and connect it to the site ground, as shown in Figure 54.



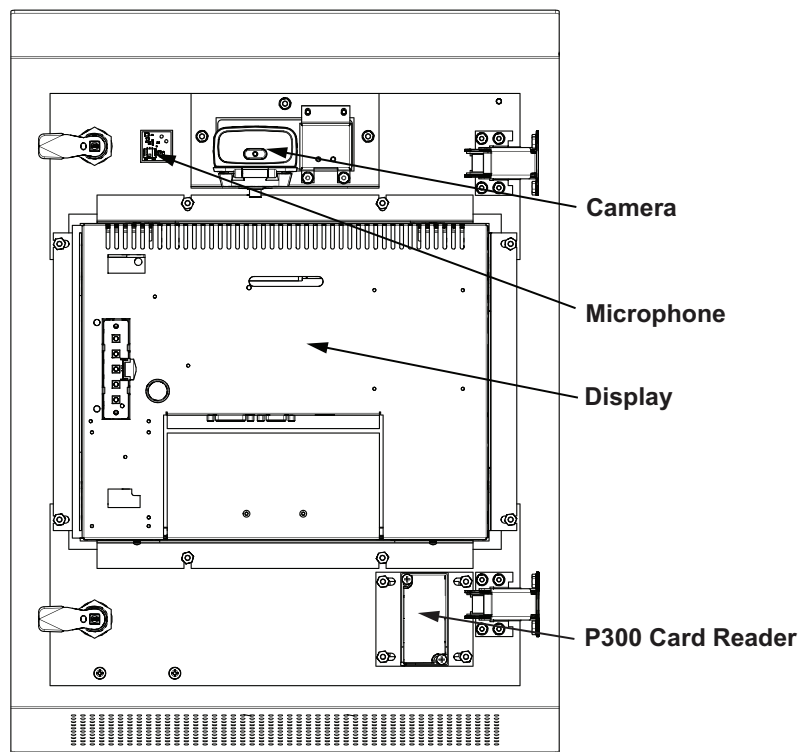
**Figure 54. Grounding the 22" Touch Screen**

## 3.5 Outdoor Touch Screen Door, Boards, and Grounding

### 3.5.1 Inside Door

The inside doors contain the following components as shown in Figure 55:

- Camera
- Microphone
- Display
- P300 Card Reader



**Figure 55. TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) inside door**

---

**Note:** Mircom sells a postal lock enclosure: part number TX3-PL-ENCL.

---

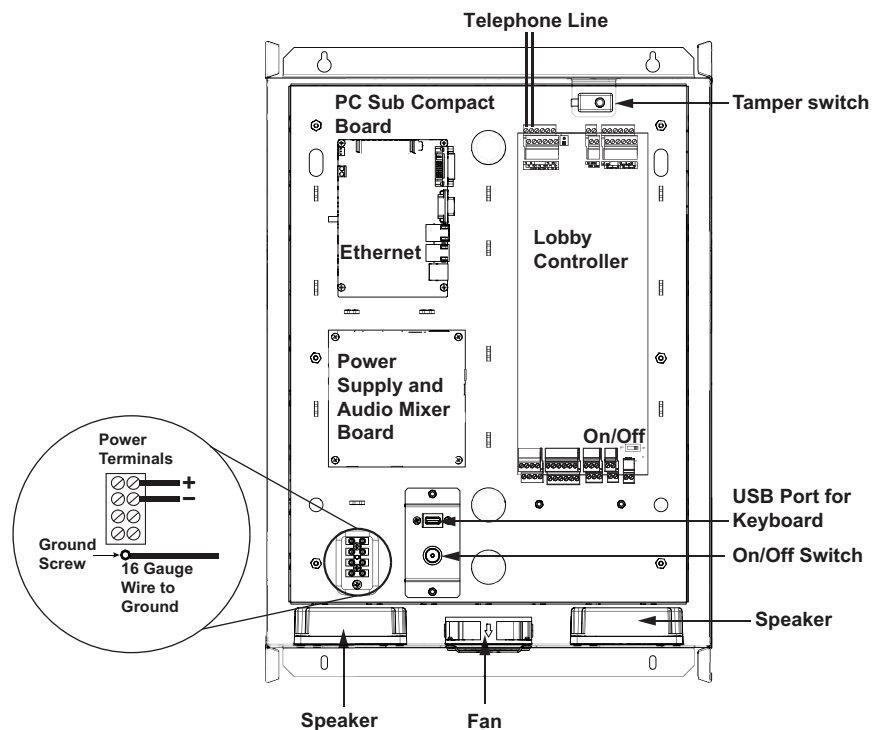


### 3.5.2 Controller Boards

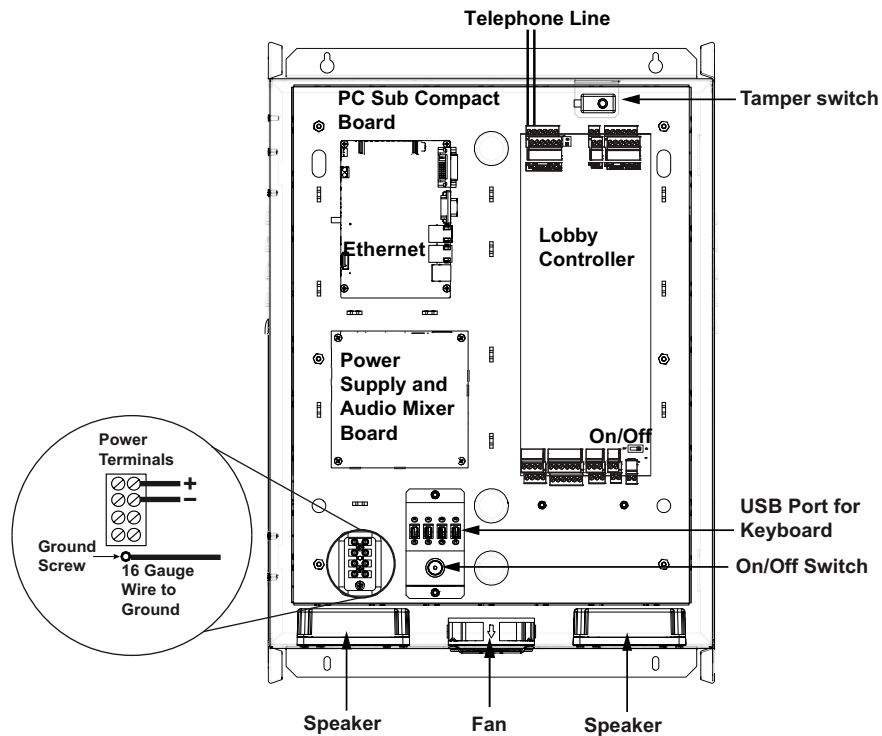
The TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A) contain the following components and controller boards as shown in Figure 56 and Figure 57.

- On/Off Switch
- USB Port for keyboard configuration
- Lobby Controller (also called Telephone Access controller board)
- PC Sub Compact Board with Ethernet Port
- Power Supply and Audio Mixer Board
- Fan
- Speakers

To access the panel, unlock the door and swing it open.



**Figure 56. TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR controller board panel**



**Figure 57. TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A controller board panel**

### 3.5.3 Grounding

Grounding reduces the risk of electrical shock by providing an alternate escape route for the electrical current.

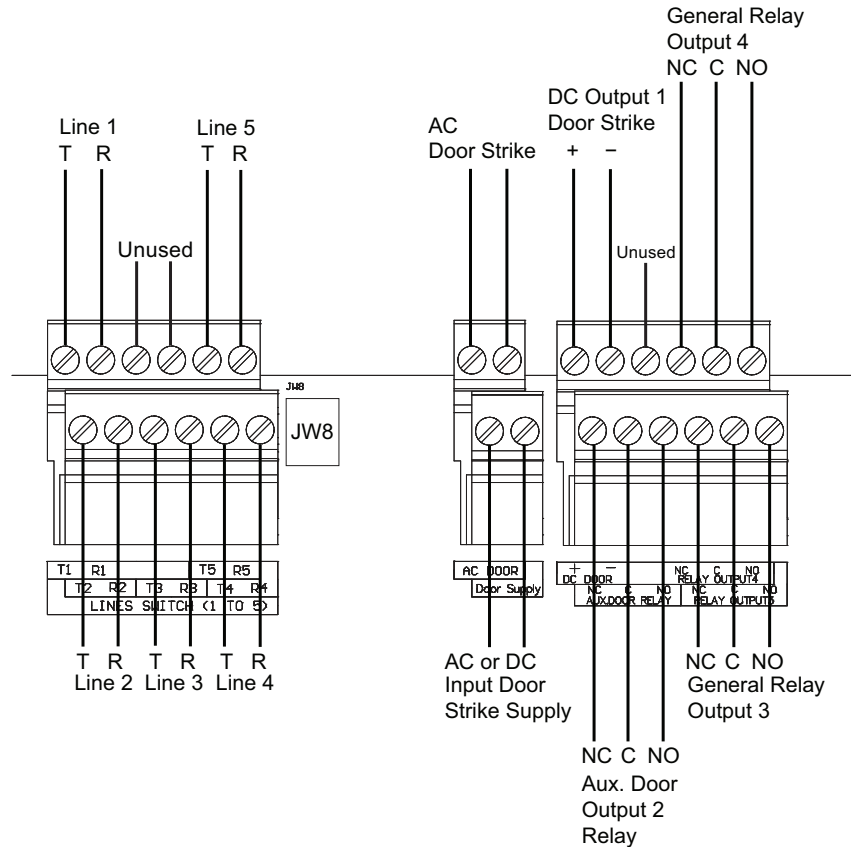
#### To ground TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A)

1. Attach the ground screw to a suitable grounding wire and connect it to the site ground, as shown in Figure 56 and Figure 57.

### 3.6 Lobby Controller Board

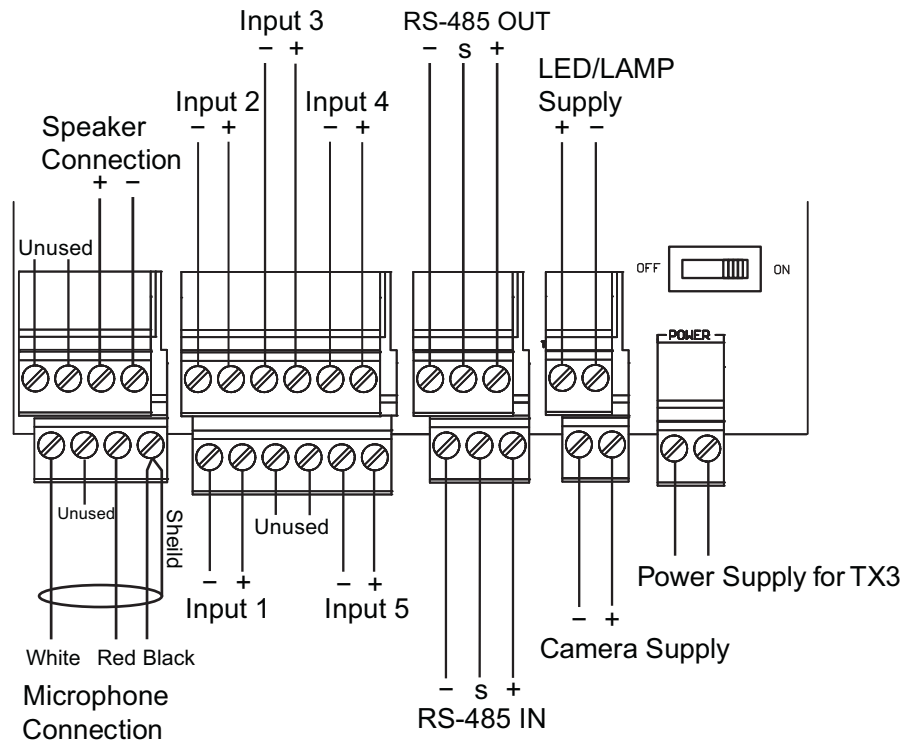
For detailed information about the lobby controller installation and setup see LT-969 TX3 Telephone Access System Installation and Operation Manual.

Figure 58 shows the connectors at the top of the lobby controller.



**Figure 58. Lobby controller board connectors - top**

Figure 59 shows the connectors at the bottom of the lobby controller board.



**Figure 59. Lobby controller board connectors - bottom**

## 3.7 Connecting to the External Power Supply

The power supply terminal block is shown in Figures 48 and 52. It receives 24 VDC from the external TX3-PS24-5A power supply.

The external TX3-PS24-5A power supply connects to the building power AC power supply. A voltage selectable switch is located on the side of the unit and is factory set to 115 V. See the included document (LT-1094) for instructions on how to change the voltage.

For best operation install the external power supply into its own dedicated electrical outlet to protect it from excessive power surges and current fluctuations.

All Touch Screen controller boards use the TX3-PS24-5A for their power supply. The door strike power supply depends on the door strike power requirements.

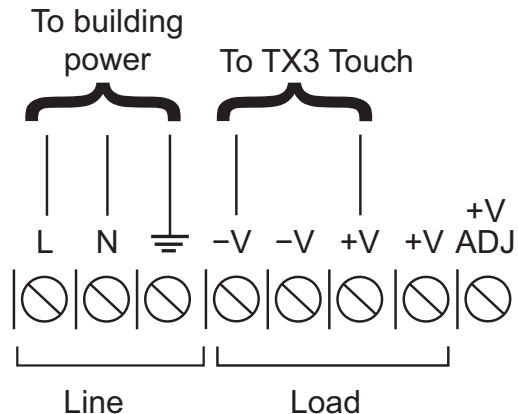
---

**Note:**      **Install the power supply indoors and outside of the Touch Screen enclosure.**

---

### 3.7.1 Wiring the External Power Supply

The power supply terminals are located at the bottom of the TX3-PS24-5A external power supply as shown in Figure 60.



**Figure 60. TX3-PS24-5A terminal block wiring**

#### To connect the power supply

1. Turn the power off from the Touch Screen Panel.

2. Set the voltage selectable switch on the TX3-PS24-5A power supply to the appropriate voltage. The voltage selectable switch can be set to either 115 V or 230 V. See section 2.8 on page 51.
3. Connect the load power supply wires to the Touch Screen Controller board terminal screws as shown in Figures 50 and 54.
4. Connect the other end of the load power supply wires to the **Load** terminal screws as shown in Figure 60.
5. Connect the building power supply wires to the **Line** terminal screws as shown in Figure 60.
6. Turn the power on.

### 3.7.2 Maximum Power Supply Wire Distances

The distance from the Touch screen to the power supply is a function of the wire gauge and the resistance generated by the cable by the power draw.

Do not exceed the maximum distances from the Touch screen to the power supply as indicated in Table 1.

**Table 1: Maximum Power Supply Wire Distances**

Gauge	Distance
16	125 ft (38.1 m)
14	200 ft (60.96 m)
12	320 ft (97.536 m)
10	500 ft (152.4 m)

## 3.8 Installing the TX3-TOUCH-UPS-KIT Uninterruptible Power Supply

**Note:** If the Touch Screen has a version of Windows lower than 10, use the TX3-TOUCH-UPS-KIT Uninterruptible Power Supply. Alternatively, use a 500 VA uninterruptible power supply with 15 inch Touch Screens, and a 1000 VA uninterruptible power supply with 22 inch Touch Screens. If the Touch Screen has Windows 10, then a UPS is not required. Touch Screens with Windows 10 have an **SO-440/ SO-441/ SO-411** sticker with the version **2.15.7** or higher on the PC board.

The TX3-TOUCH-UPS-KIT is not required with TX3-TOUCH-

F15-E, TX3-TOUCH-S15-E, TX3-TOUCH-F22-F,  
TX3-TOUCH-S22-F, TX3-TOUCH-S15B-WR-A, and TX3-  
TOUCH-S15S-WR-A.

Follow the manufacturer's instructions included with TX3-TOUCH-UPS-KIT.

See the Mircom document LT-6714, included with TX3-TOUCH-UPS-KIT, for instructions on:

- Connecting the USB cable to the TX3 Touch.
- Connecting the power cable from the TX3-PS24-5A power supply to the uninterruptible power supply.
- Installing the APC PowerChute Personal Edition Software (only on existing TX3 Touch installations).

## 3.9 Turning the Touch Screen On and Off

---

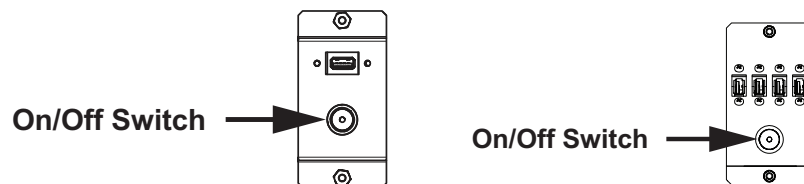
**Note:** Never turn off power when the system is operational.

---

### To shut down the Touch Screen

1. Press the On/Off switch.

The On/Off switch is at the bottom of the inner chassis.



**Figure 61. On/Off switch**

2. After the TX3 Configurator and Windows have finished shutting down, unplug the power supply.

---

**Attention:** Do not disconnect the power until the full shut down process has been completed.

---

### To turn on the Touch Screen

1. Press the On/Off switch.

### 3.10 Installing the Postal Lock on TX3 Touch Indoor Units

Some systems have a built-in micro switch and mounting hardware for a postal lock installation. If postal service is required, contact the Post Office to obtain the lock.

---

**Note:** When installing the postal lock leave the micro switch tie wrap in place. Remove the tie wrap after the postal lock is installed.

---

Input 1 on the lobby controller connects to the postal lock micro- switch.

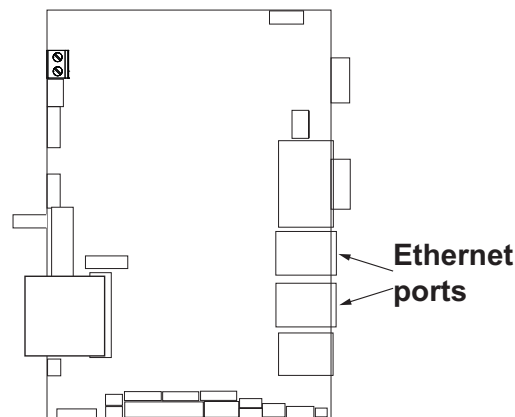
### 3.11 Installing the Telephone Lines

Telephone lines 1 to 5 are situated at the top left of the main controller board as shown in Figure 58. Both NSL and ADC lines can be connected. Each T/R line is polarity insensitive and can be reversed.

### 3.12 Ethernet

The PC sub compact board has 2 Ethernet ports, shown in Figure 62.

Connect an RJ-45 cable to either one of the Ethernet ports for TCP/IP network communication, including VOIP.



**Figure 62. Ethernet ports**



## 3.13 Beginning Configuration

Ensure that the lobby controller ID is set up. This address is set by the SW1 DIP switches on the lobby controller. The individual switches are numbered 1 to 8 from left to right, and are marked as either ON or OFF. The first six switches (1, 2, 3, 4, 5, and 6) set the address ID.

Every TX3 System controller requires a unique ID. The unit ID settings do not need to be in sequence but it is recommended to assign IDs starting from 1, using increments of one (for example, 1, 2, 3, 4, and so on). Unit IDs must not be duplicated on an RS-485 network.

DIP Switch 7 on SW1 must be set to ON for Touch Screens, and OFF for non-Touch Screens.

The Touch Screen controller is now ready for configuration. For a complete description of the configuration and on how to establish a connection to the Touch Screen, see the following documentation:

- LT-995 Configuration and Administration Guide
- LT-973 TX3 Configurator Quick Start

## 3.14 Installing Other Optional and Replacement Components

The optional components are listed below. All the documents (for example LT-5997) can be found on <http://www.mircom.com>.

**RS-485.** An RS-485 terminal lets you easily connect multiple Touch Screen and lobby and card access controllers across a network. The RS-485 terminal consists of + (positive), – (negative), and S (Shield) connections. See section 3.15 on page 79.

**Camera.** For instructions on installing an IP camera, see section 3.16 on page 81.

**RPL-MD-1074 Replacement Display for TX3-TOUCH-F22-C/D and TX3-TOUCH-S22-C/D.** See LT-6076.

**RPL-SC-420005 Replacement Display for TX3-TOUCH-F22-E/F and TX3-TOUCH-S22-E/F.** See LT-6088.

**TX3-DELTA5 Card Reader.** See section 3.17 on page 84.

**TX3-GPM Guard Phone Module.** See LT-972.

**TX3-USB-AD Kit.** See LT-6027.

**TX3-WIEGAND-OUT.** LT-6682.

**TX3-CX-1NP Single Door Control Module.** See LT-5997.

**RPL-LK-WR Replacement Lockset for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A).** See LT-6649.

**TX3-TOUCH-WR-BB Mounting Box for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A).** See LT-6912.

**TX3-CF-003 Fan.** For instructions on installing a fan in the 22" Touch Screen, see LT-6074 Installing the Fan in the 22" Touch Screen.

**Two door controller network board.** See LT-981A.

**Replacement lobby controller board.** For details on the lobby controller board, see LT-969.

**RPL-SC-420002 Replacement display for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A).** See LT-6656.

**RPL-TOUCH-WR-WK Replacement Reader and Camera Window Kit for TX3-TOUCH-S15B-WR(-A) and TX3-TOUCH-S15S-WR(-A).** See LT-6659.

## 3.15 RS-485

An RS-485 terminal lets you easily connect multiple lobby, card access and elevator restriction controllers across a network. The RS-485 connection is situated at the bottom middle of the main controller board and consists of two separate terminals, each for an input and output. See figure 63.

Connect the RS-485 input terminal to the RS-485 output terminal of another controller. See figure 63.

If you do not have end-of-line 120  $\Omega$  resistors, close JW5 on the first and last controllers instead. See LT-969 TX3 Telephone Access System Installation and Operation Manual on [www.mircom.com](http://www.mircom.com).

If there are problems with RS-485 communication, close both JW9 and JW10 on either the first or last controller connected by RS-485. See LT-969 TX3 Telephone Access System Installation and Operation Manual on [www.mircom.com](http://www.mircom.com).

---

**Note:** Use twisted shielded pair.

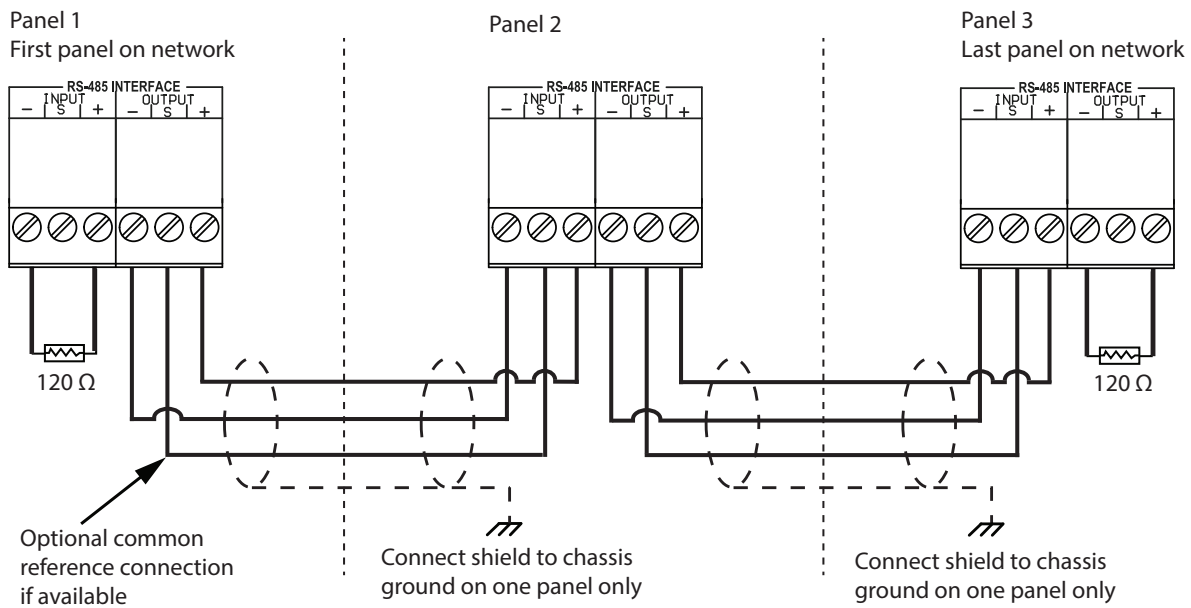
---

Recommended cables:

- RS485 cables
  - Belden 3109A RS-485, (4 pr) 22 AWG (7x30) or equivalent
  - Belden 9842 RS-485, (2 pr) 24 AWG (7x32) or equivalent
  - Belden 9841 RS-485, (1 pr) 24 AWG (7x32) or equivalent
- CAT5 Cables
  - Belden 72001E ETHERNET Cat 5e 2 Pair, 24 AWG or equivalent
  - Belden 70006E Cat 5e, 100Mb/s, Quad, AWG 22 (1) or equivalent

Maximum total length:

- 4000 feet (1244 m) for 22 AWG
- 2500 feet (762.5 m) for 24 AWG



**Figure 63. RS-485 wiring**

## 3.16 Installing the P1264 IP camera

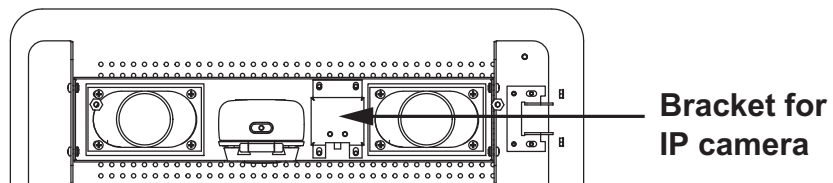
You can install a P1264 IP camera in the following models:

- TX3-TOUCH-S22-C/D/E/F
- TX3-TOUCH-F22-C/D/E/F
- TX3-TOUCH-S15-C/D/E
- TX3-TOUCH-F15-C/D/E
- TX3-TOUCH-S15B-WR(-A)
- TX3-TOUCH-S15S-WR(-A)

### To install the IP camera

1. Shut down the Touch Screen and disconnect the power.
2. Open the Touch Screen door.

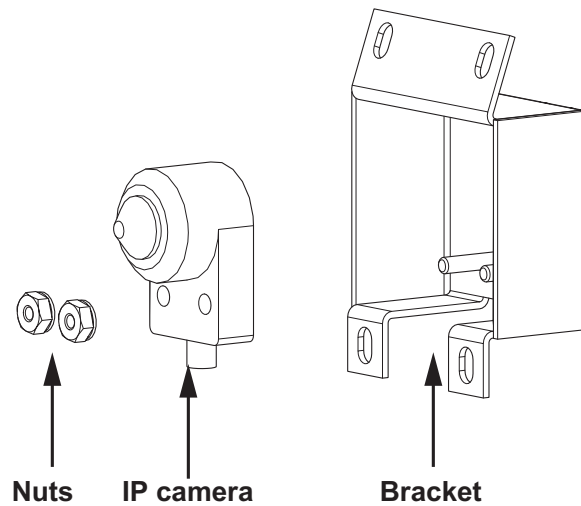
The IP camera is installed in the top center of the door, as shown in Figure 64.



**Figure 64. Position of the camera on the inside door**

3. Unscrew the 2 nuts and remove the camera bracket.

4. Mount the camera on two posts and secure it with the included nuts.

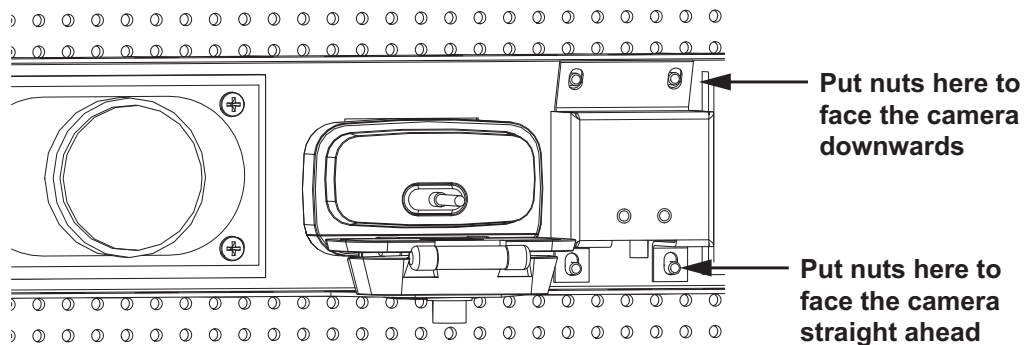


**Figure 65. Mounting the IP camera in the bracket**

The camera bracket can be mounted in the door in three ways.

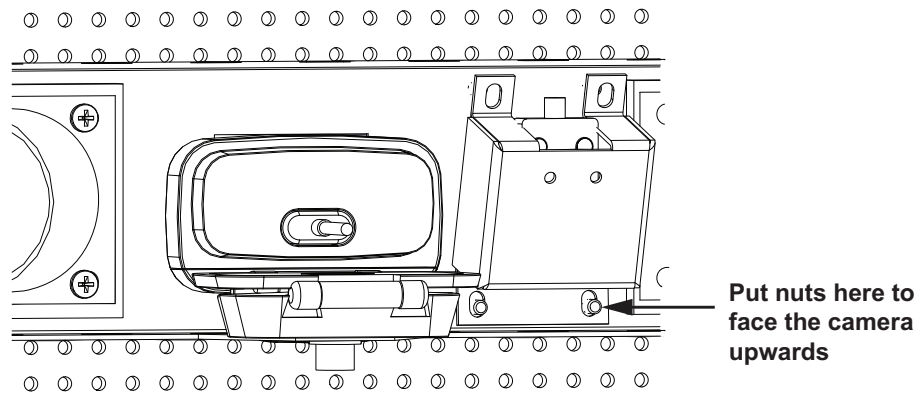
Mount the bracket as shown in Figure 66 with the nuts on top so that the camera faces down.

Mount the bracket as shown in Figure 66 with the nuts on bottom so that the camera faces straight ahead



**Figure 66. Mounting the camera bracket**

Mount the bracket as shown in Figure 67 with the nuts on bottom so that the camera faces up



**Figure 67. Mounting the camera bracket upside down**

5. Connect the IP camera according to the manufacturer's instructions.

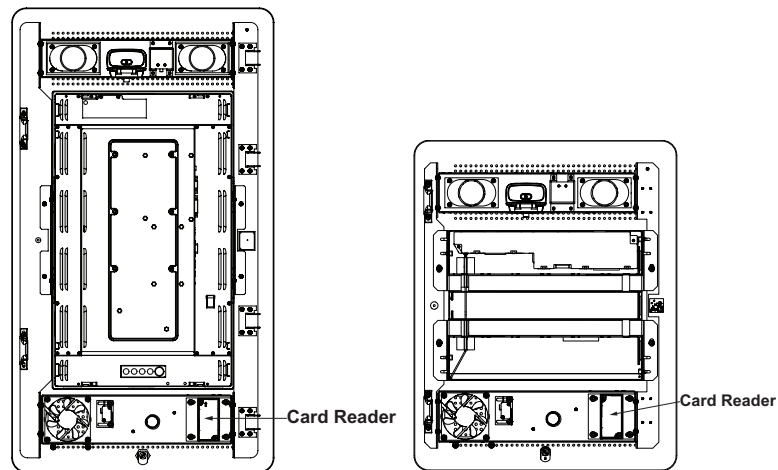
### 3.17 Installing the Optional TX3-DELTA5 Card Reader

These instructions explain how to replace the factory-installed card reader with the optional TX3-DELTA5 card reader in these models:

- TX3-TOUCH-S22-C/D/E/F
- TX3-TOUCH-F22-C/D/E/F
- TX3-TOUCH-S15-C/D/E
- TX3-TOUCH-F15-C/D/E
- TX3-TOUCH-S15B-WR(-A)
- TX3-TOUCH-S15S-WR(-A)

1. Open the Touch Screen door.

The card reader is in the lower right corner of the inside of the door, as shown in Figure 68.



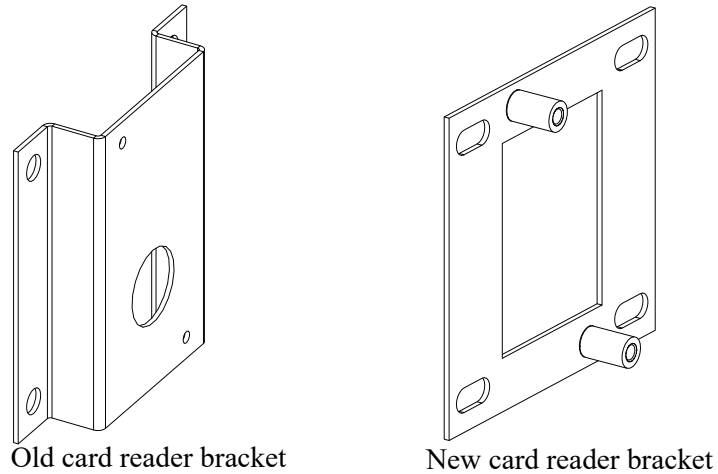
**Figure 68. Position of the card reader**



---

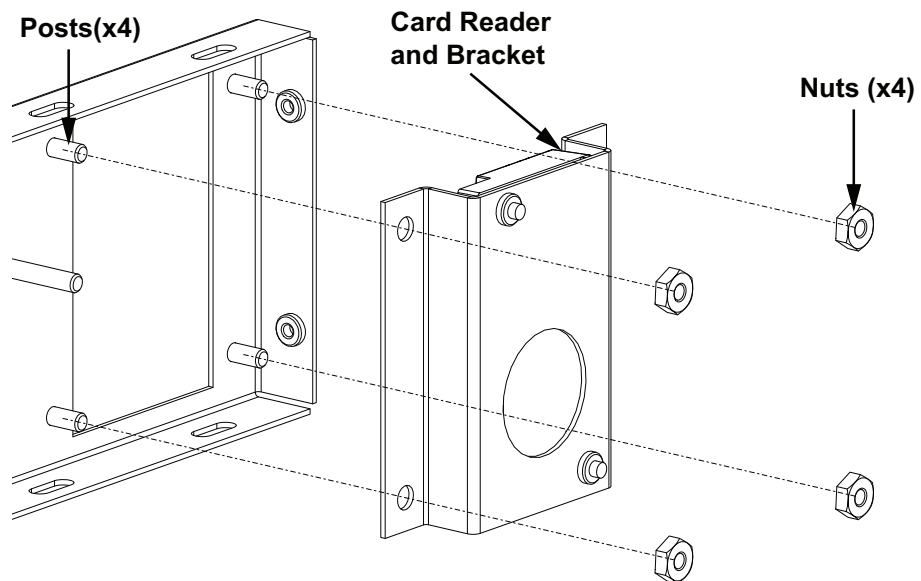
**Note:** There are two possible styles of card reader bracket, depending on the date of manufacture. In these instructions they are referred to as old and new brackets.

---

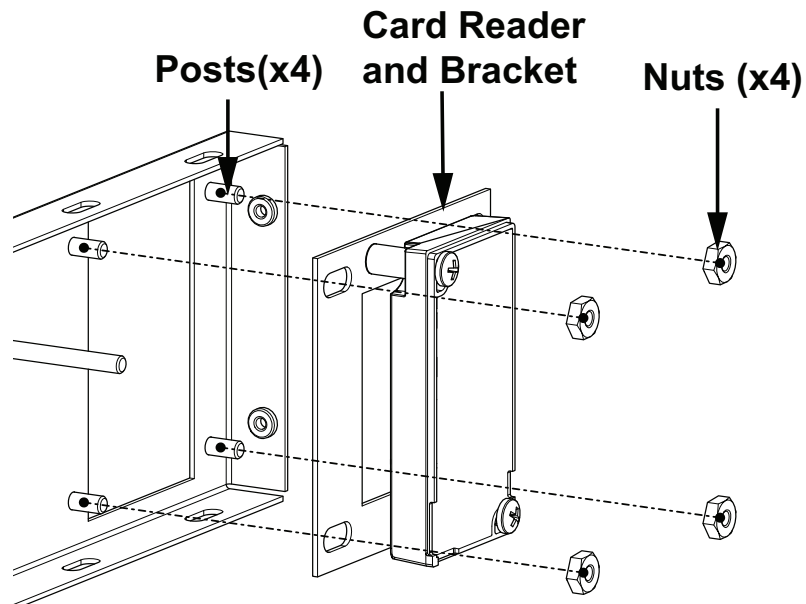


**Figure 69. Old and new card reader brackets**

2. Remove the card reader bracket from the Touch Screen door as shown in Figure 70 and Figure 71.

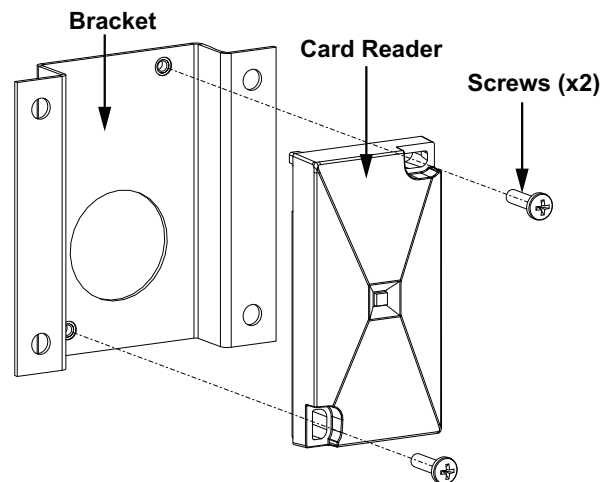


**Figure 70. Old card reader bracket**

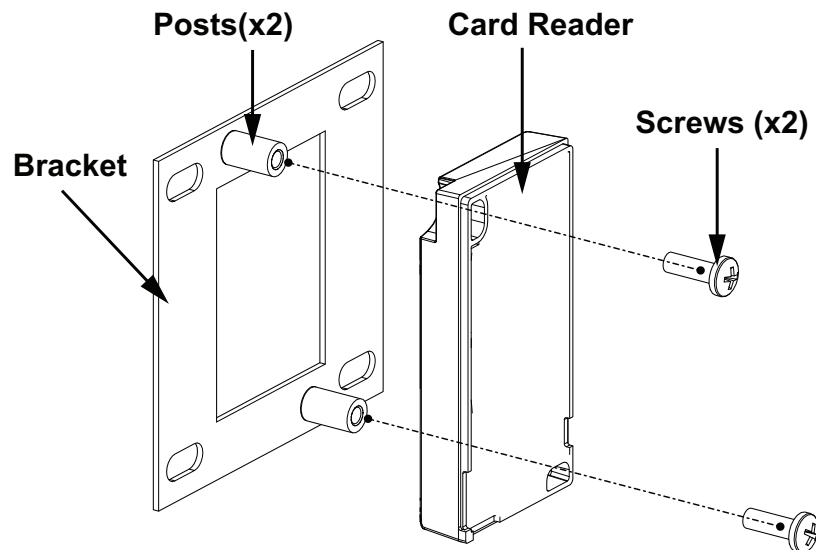


**Figure 71. New card reader bracket**

3. Remove the current card reader from the bracket and attach the replacement card reader to the bracket with the nuts or screws as shown in Figure 72 and Figure 73.

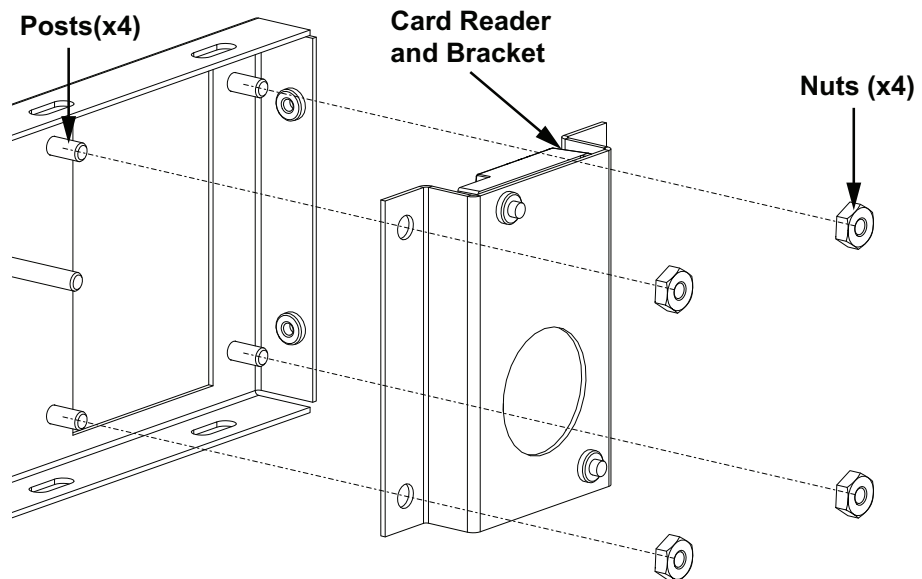


**Figure 72. Card reader and old bracket**

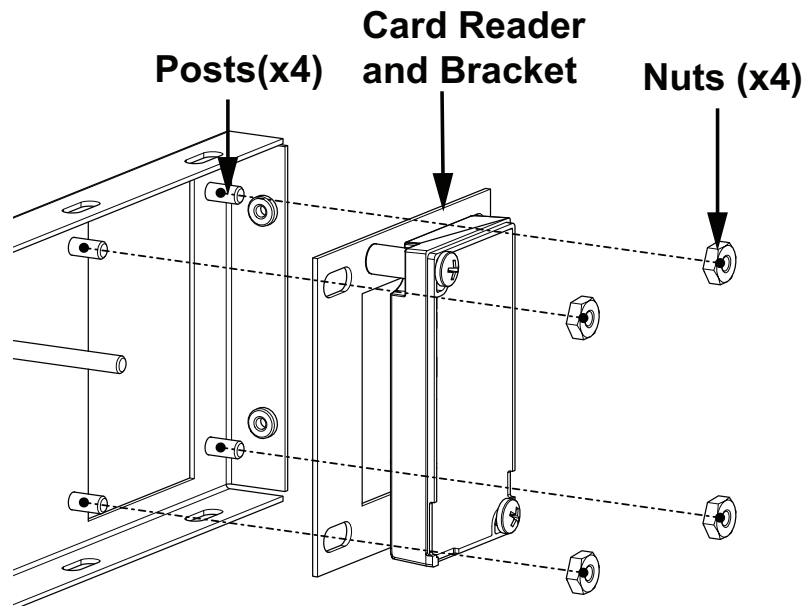


**Figure 73. Card reader and new bracket**

4. Slide the bracket on to the 4 posts on the Touch Screen door and secure it with the 4 nuts as shown in Figure 74 and Figure 75.



**Figure 74. Old card reader bracket**



**Figure 75. New card reader bracket**

# 4 Touch Screen Factory Wiring

Before turning on the system it is important to verify that the following connections are firmly in place.

For additional information about the lobby controller board connectors and jumpers, see LT-969 TX3 Telephone Access System Installation and Operation Manual.

## **This chapter explains**

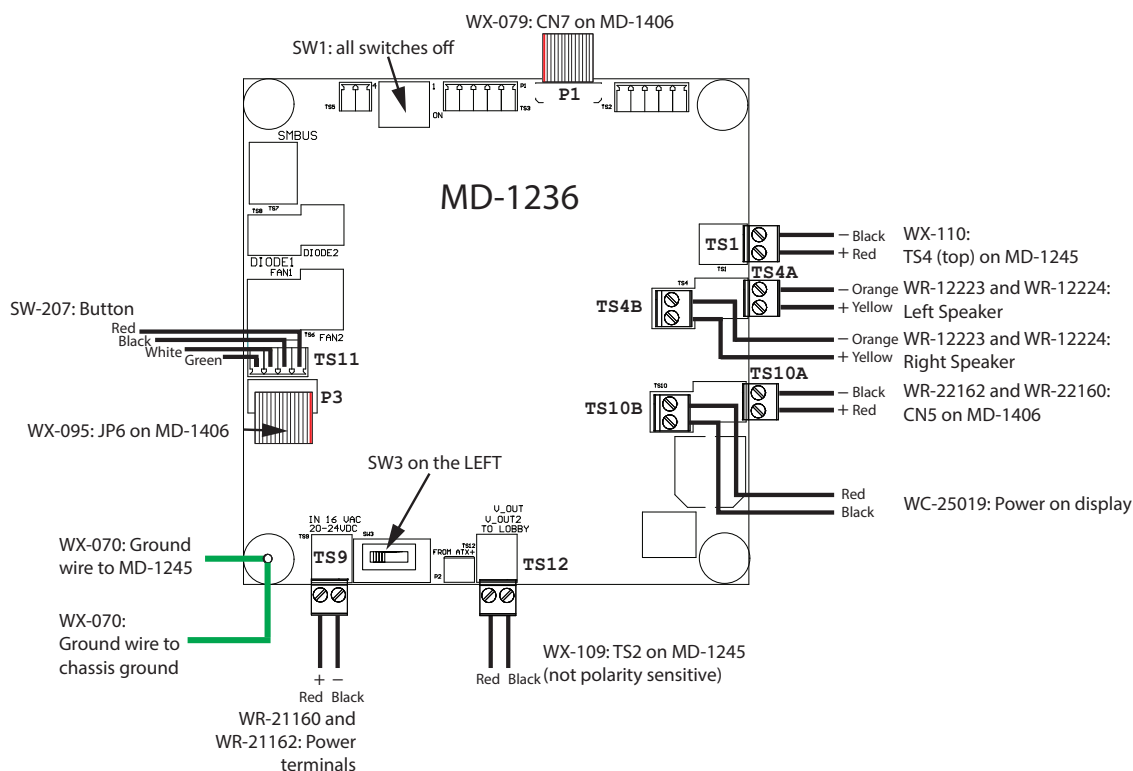
- If you have a model that ends in -F, see section 4.1 on page 90.
- If you have a model that ends in -E, see section 4.2 on page 94.
- If you have a model that ends in -D, see section 4.3 on page 101.
- If you have a model that ends in -C, see section 4.4 on page 110.
- If you have an outdoor Touch Screen, see section 4.5 on page 117.

## 4.1 Factory Wiring for Models Ending in -F

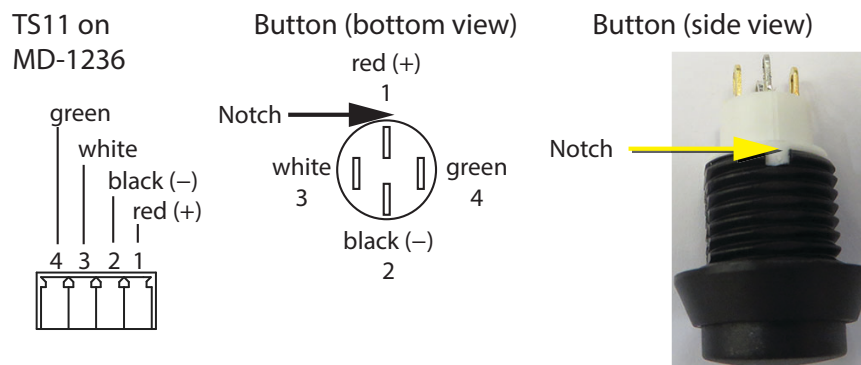
In these diagrams, MD refers to the Mircom part numbers of the circuit boards, and WX and WR refer to the Mircom part numbers of the cables.

### 4.1.1 Factory Wiring for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F

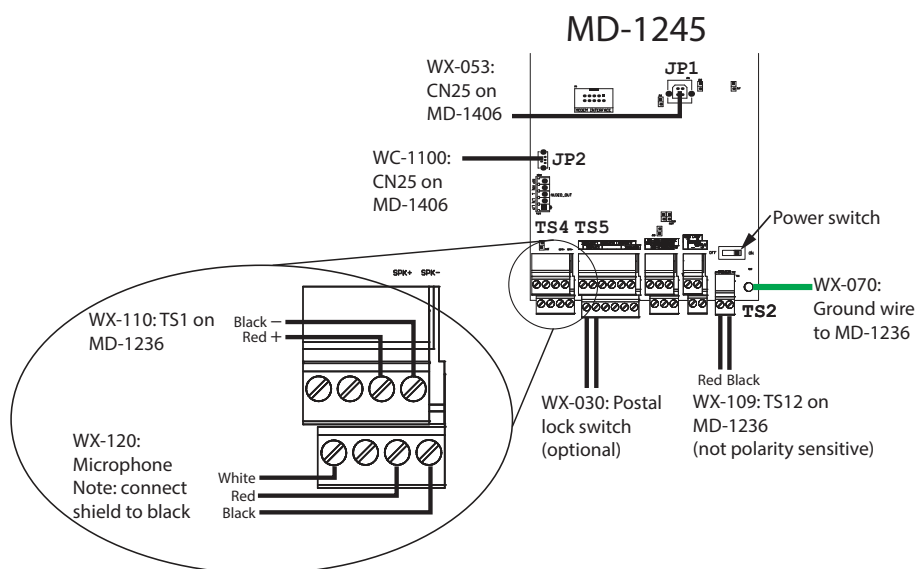
See Figure 104 for ground wires, and Figure 86 for default jumper settings on the MD-1406 PC board.



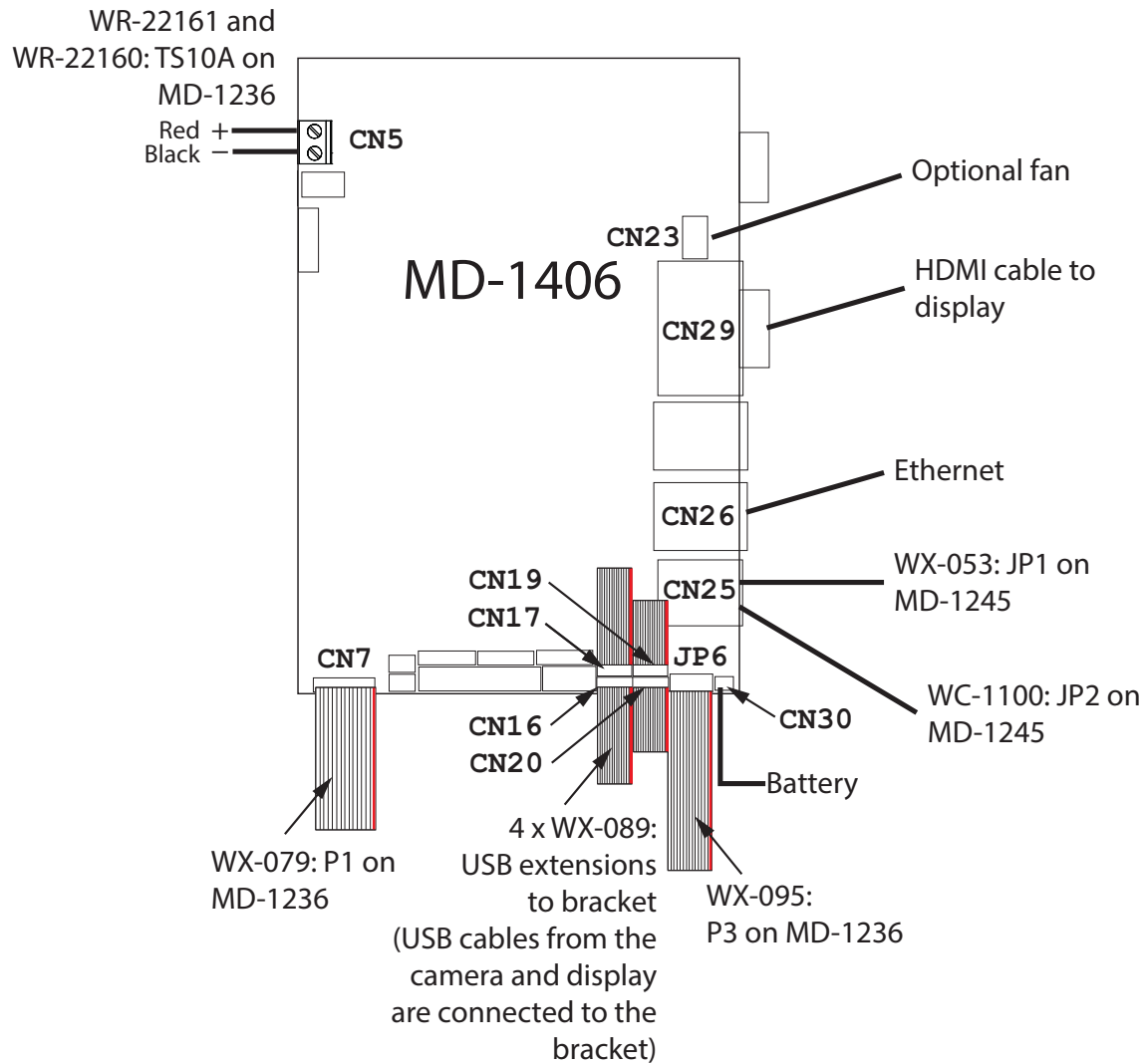
**Figure 76. Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F**



**Figure 77. Factory connections on the power button**

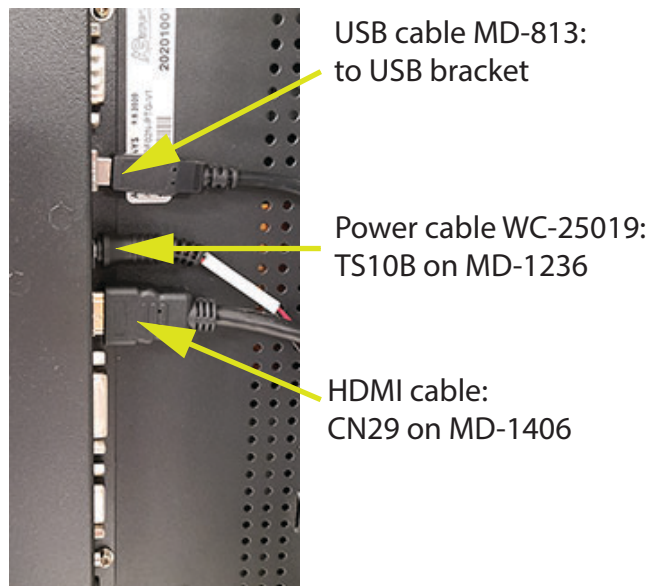


**Figure 78. Factory connections on the lobby controller board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F**



**Figure 79. Factory connections on the PC sub compact board for TX3-TOUCH-S22-F and TX3-TOUCH-F22-F**





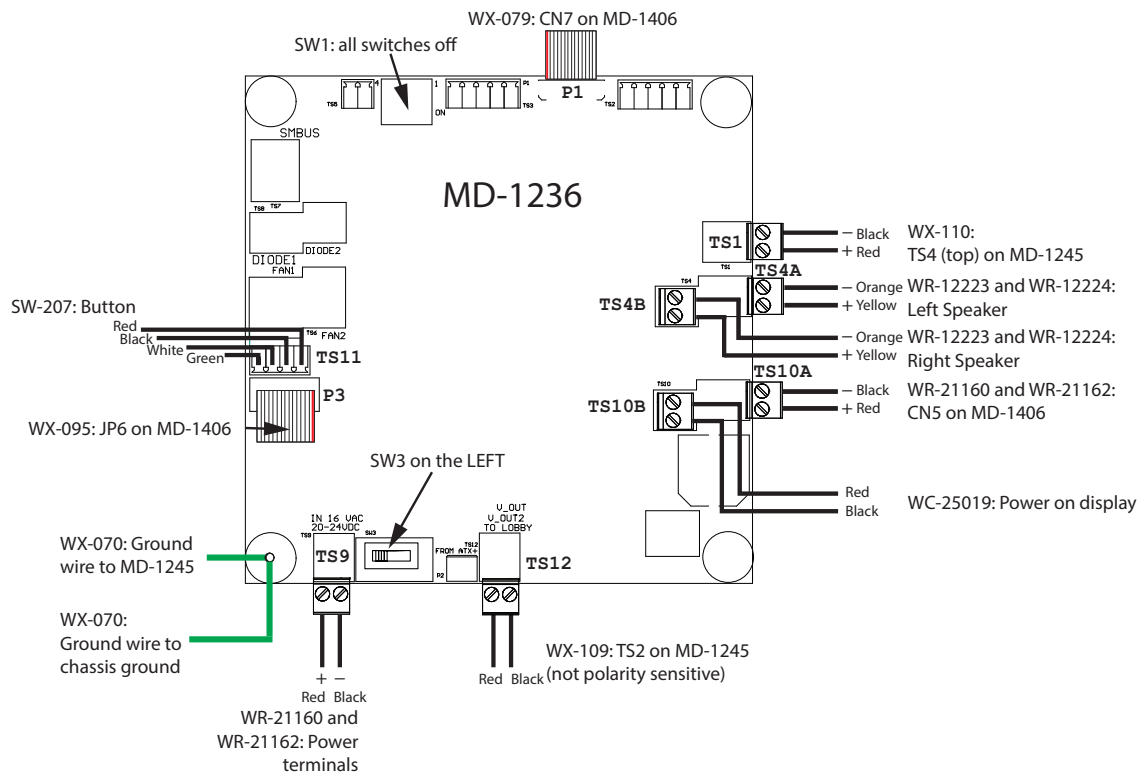
**Figure 80. Display connections on TX3-TOUCH-S22-F and TX3-TOUCH-F22-F**

## 4.2 Factory Wiring for Models Ending in -E

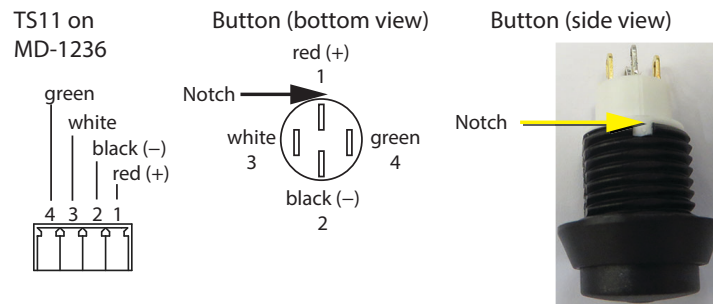
In these diagrams, MD refers to the Mircom part numbers of the circuit boards, and WX and WR refer to the Mircom part numbers of the cables.

### 4.2.1 Factory Wiring for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E

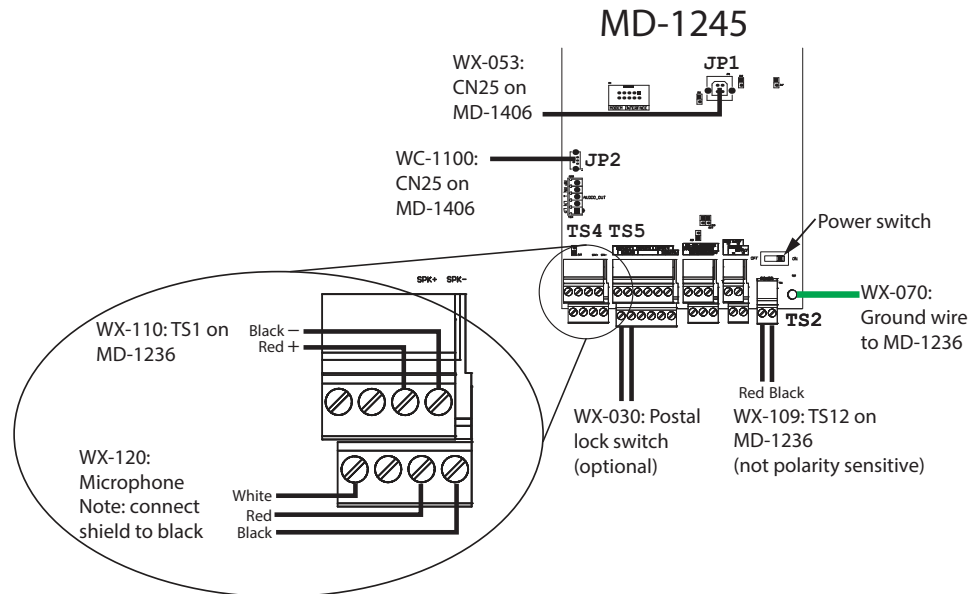
See Figure 98 for ground wires, and Figure 86 for default jumper settings on the MD-1406 PC board.



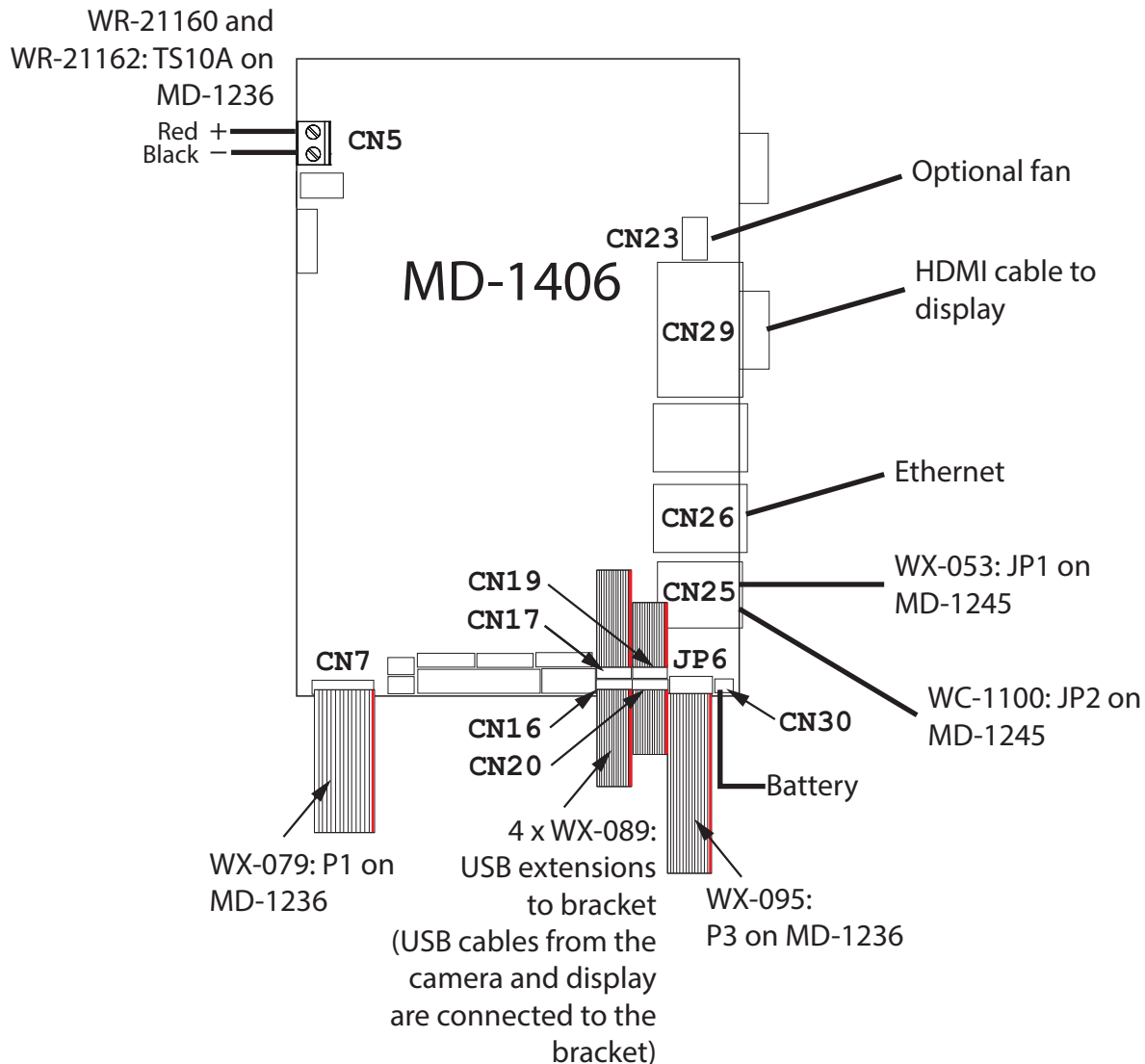
**Figure 81. Factory connections on the audio mixer board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E**



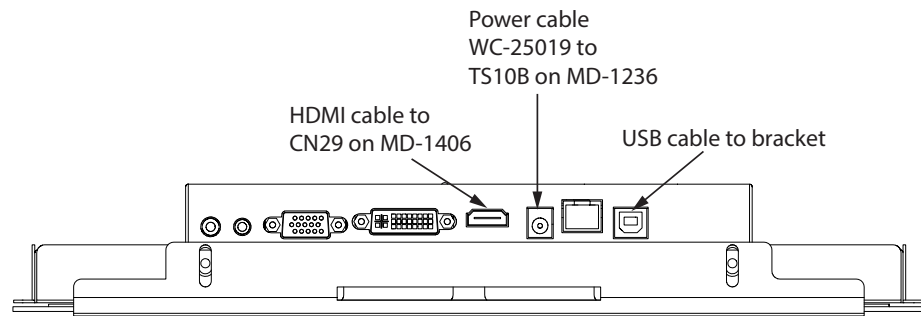
**Figure 82. Factory connections on the power button**



**Figure 83. Factory connections on the lobby controller board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E**

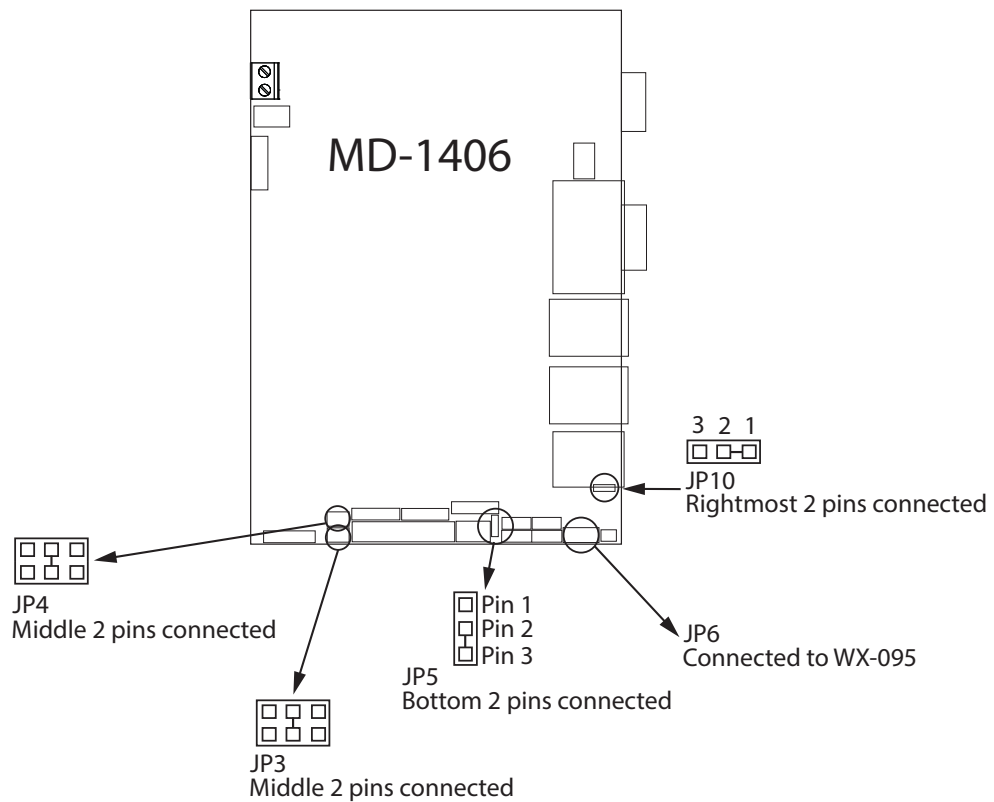


**Figure 84. Factory connections on the PC sub compact board for TX3-TOUCH-S15-E and TX3-TOUCH-F15-E**



**Figure 85. Display connections on TX3-TOUCH-S15-E and TX3-TOUCH-F15-E**

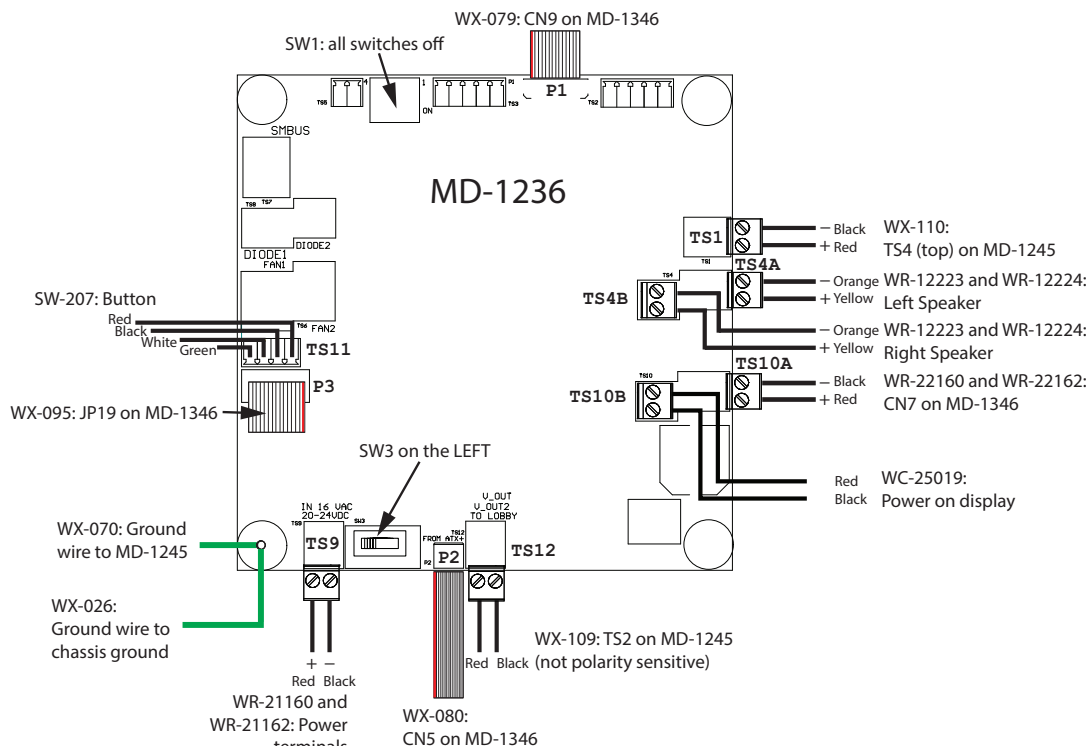
#### 4.2.2 Default Jumper Settings on the MD-1406 PC Board



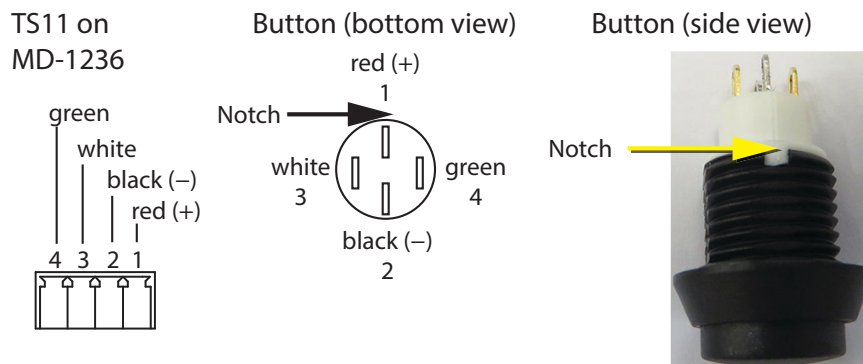
**Figure 86. Default jumper settings on MD-1406**

### 4.2.3 Factory Wiring for TX3-TOUCH-S22-E and TX3-TOUCH-F22-E

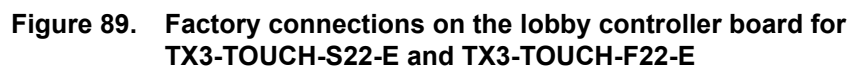
See Figure 104 for ground wires, and Figure 105 for default jumper settings on the MD-1346 PC board.

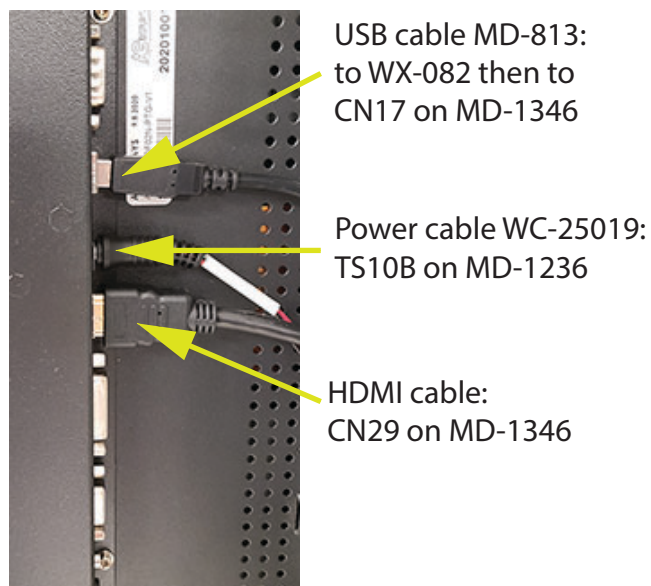


**Figure 87. Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-E and TX3-TOUCH-F22-E**



**Figure 88. Factory connections on the power button**





**Figure 91. Display connections on TX3-TOUCH-S22-E and TX3-TOUCH-F22-E**

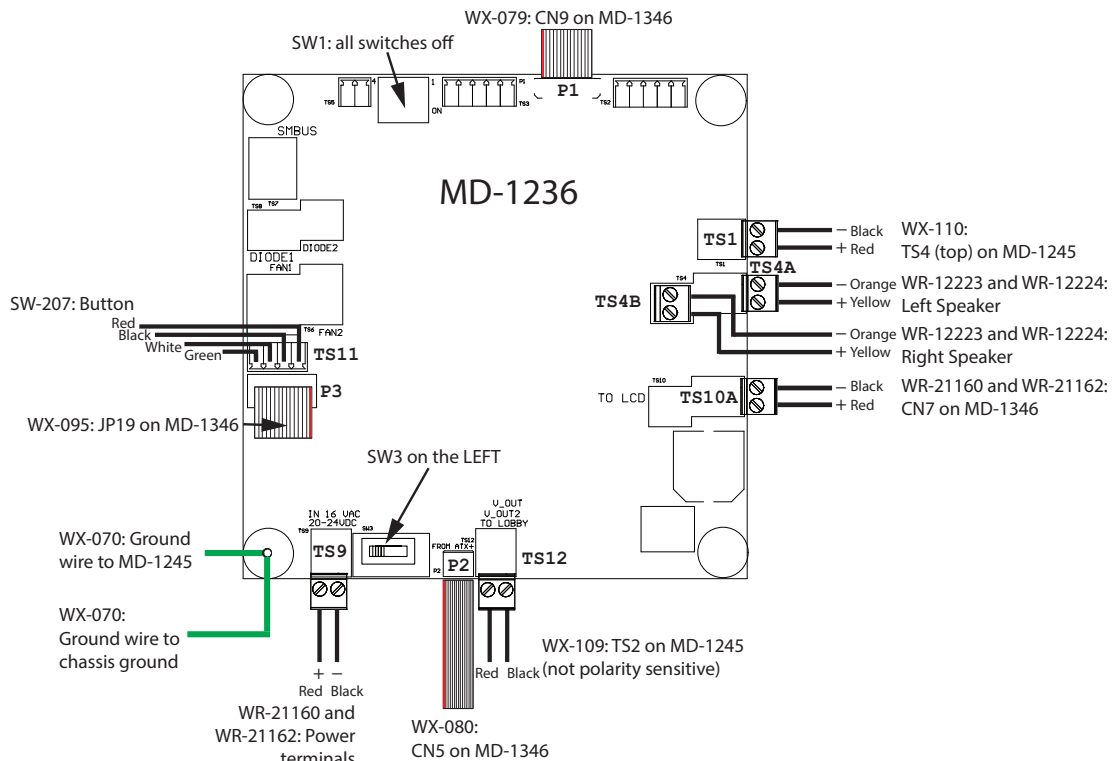


## 4.3 Factory Wiring for Models Ending in -D

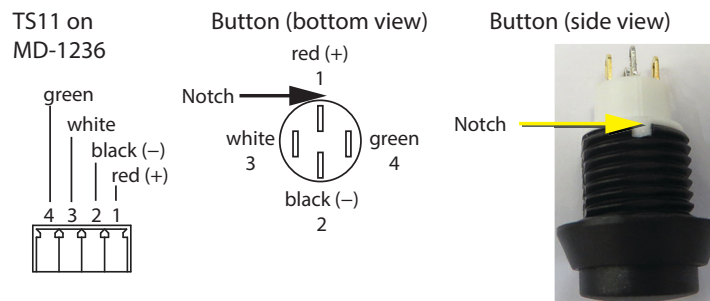
In these diagrams, MD refers to the Mircom part numbers of the circuit boards, and WX and WR refer to the Mircom part numbers of the cables.

### 4.3.1 Factory Wiring for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D

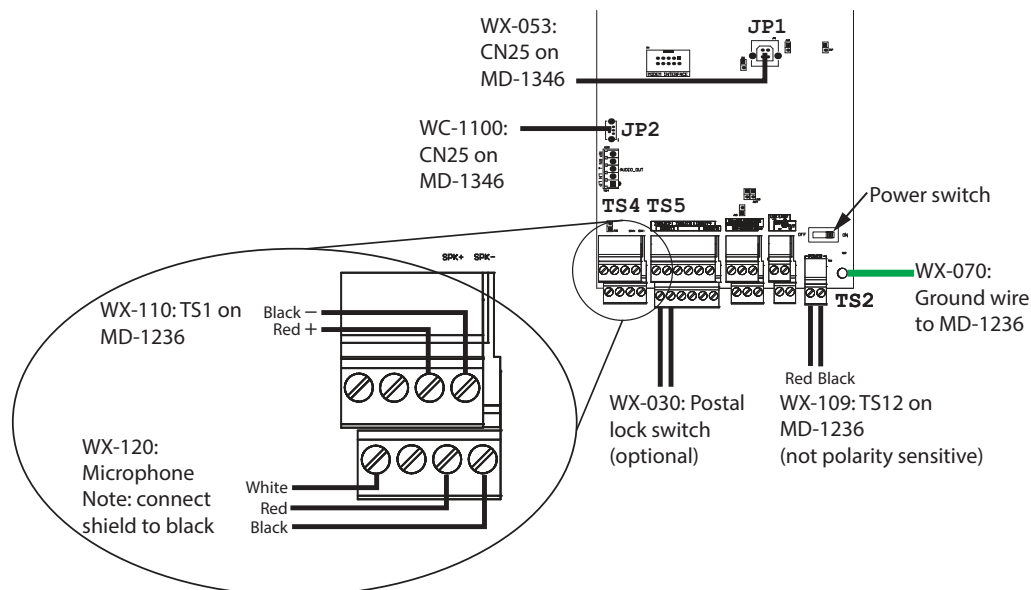
See Figure 98 for ground wires, and Figure 105 for default jumper settings on the MD-1346 PC board.



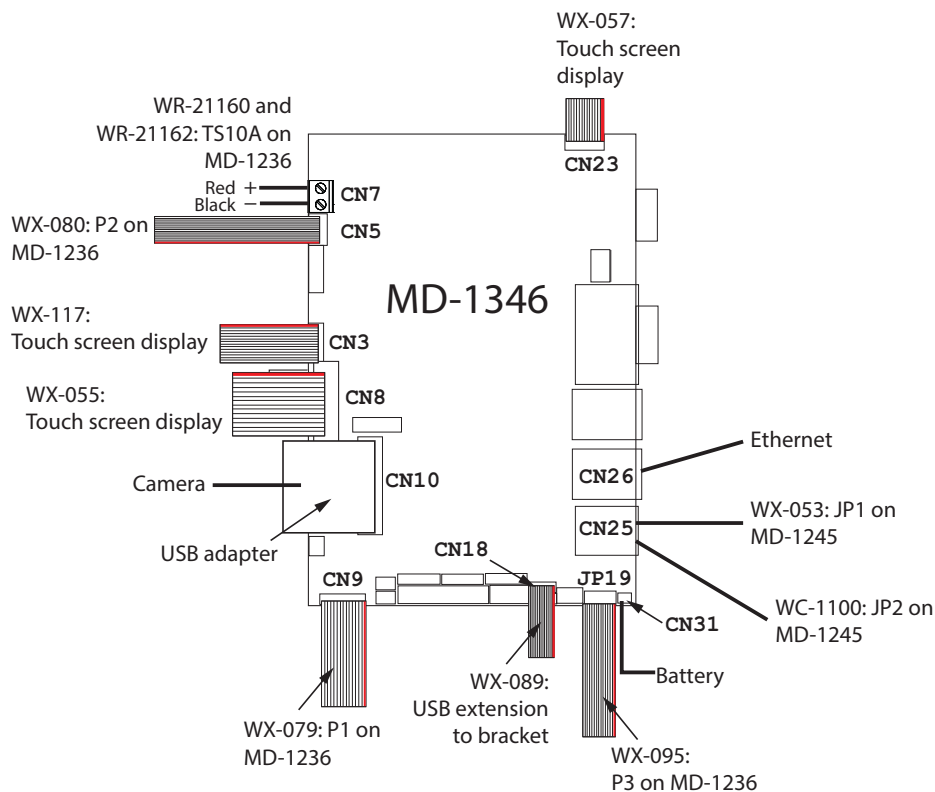
**Figure 92. Factory connections on the audio mixer board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D**



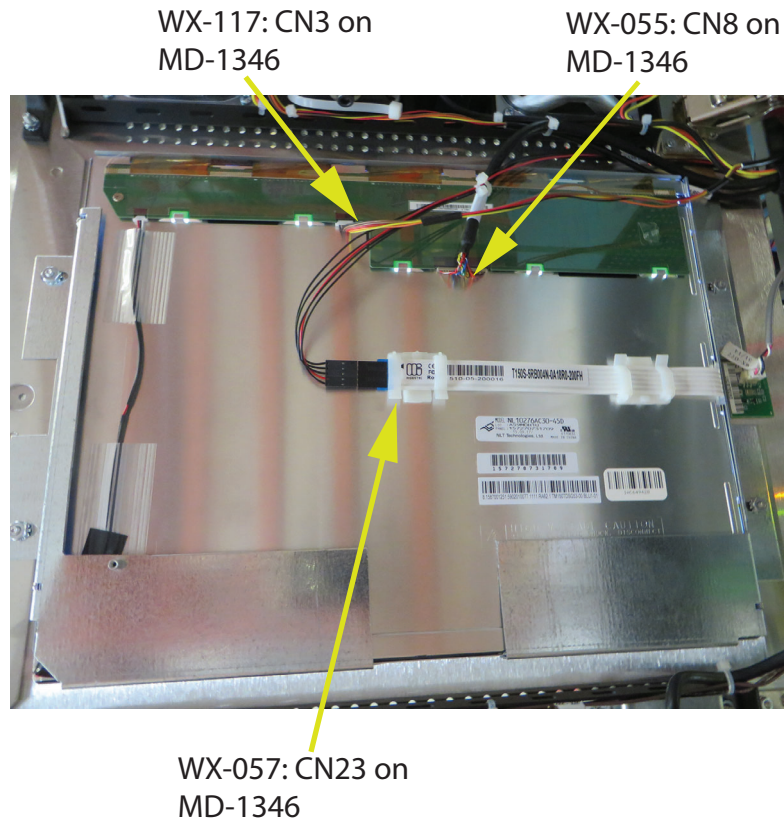
**Figure 93. Factory connections on the power button**



**Figure 94. Factory connections on the lobby controller board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D**

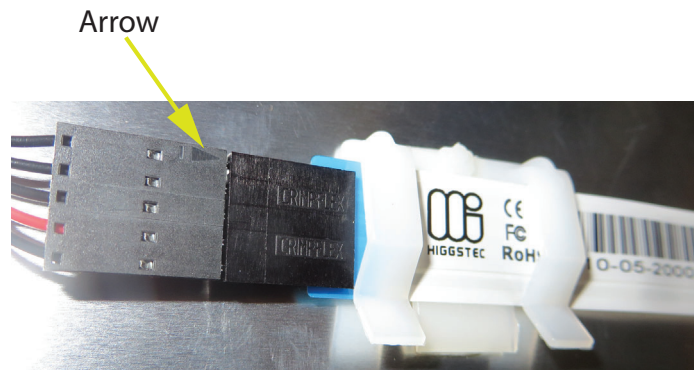


**Figure 95. Factory connections on the PC sub compact board for TX3-TOUCH-S15-D and TX3-TOUCH-F15-D**



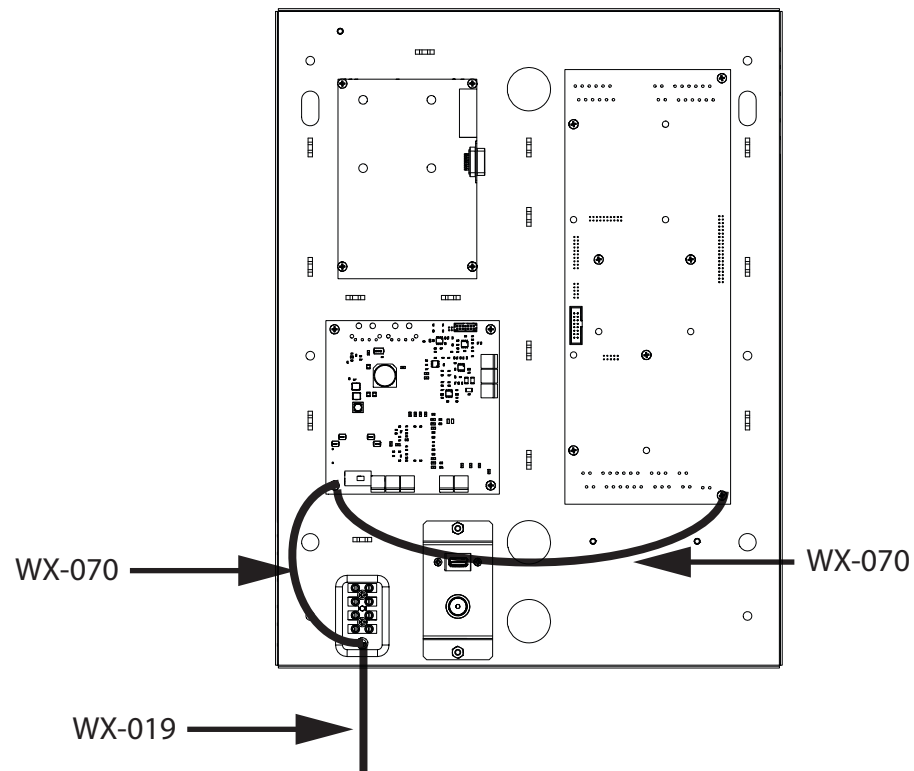
**Figure 96. Display connections on TX3-TOUCH-S15-D and TX3-TOUCH-F15-D**

**Attention:** The bottom cable must be connected so that the arrow is on the outside.



**Figure 97. Make sure that the arrow is visible**

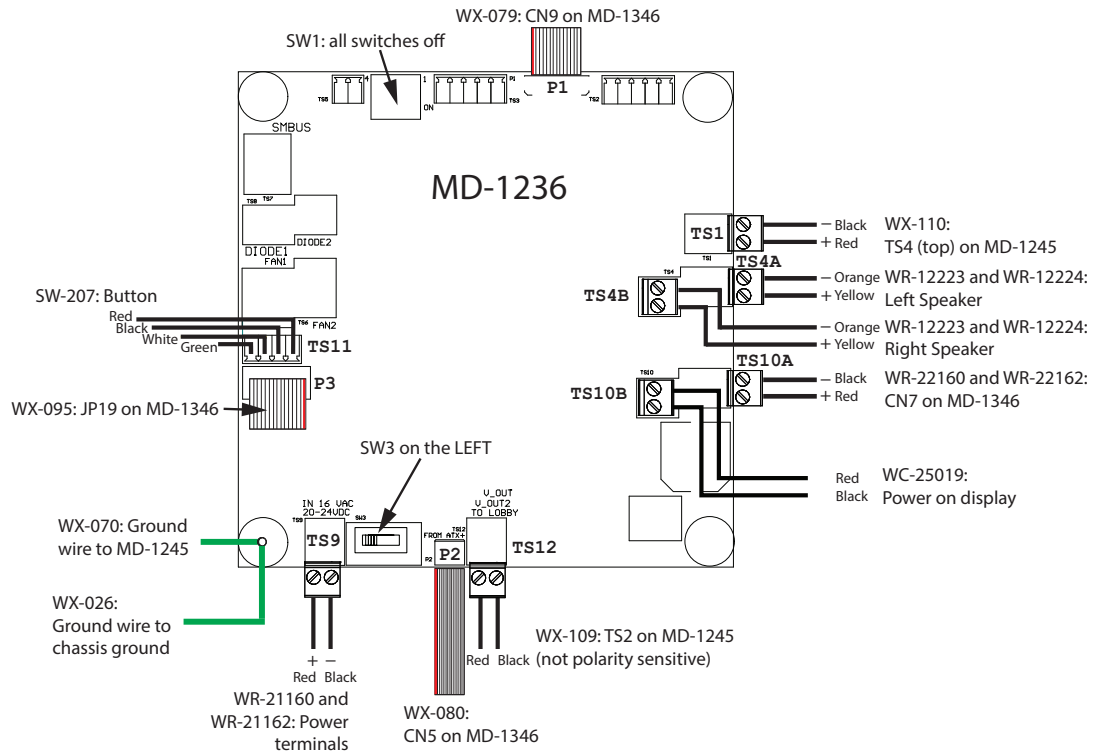
### 4.3.2 Ground Wires on 15 inch Touch Screens



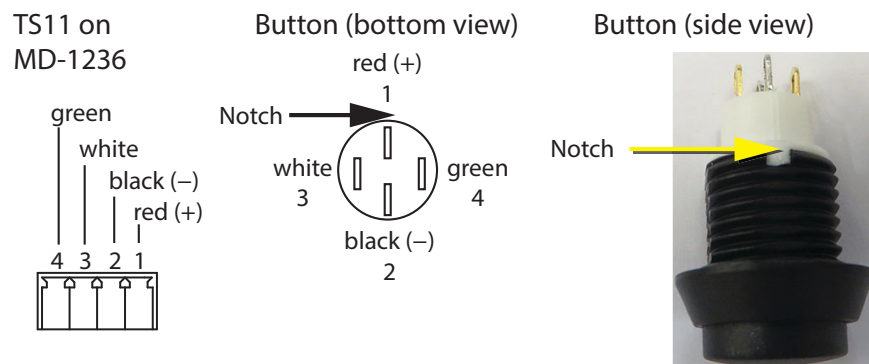
**Figure 98. Ground wires on 15 inch Touch Screens**

### 4.3.3 Factory Wiring for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D

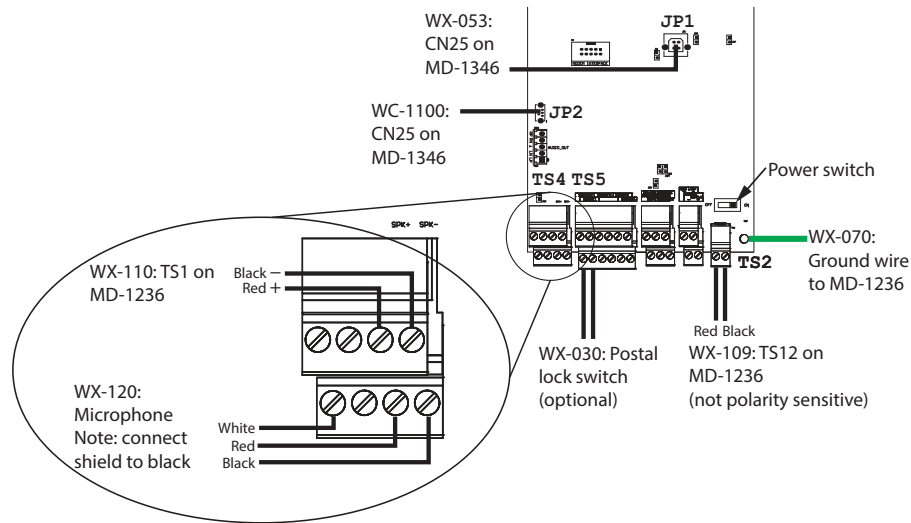
See Figure 104 for ground wires, and Figure 105 for default jumper settings on the MD-1346 PC board.



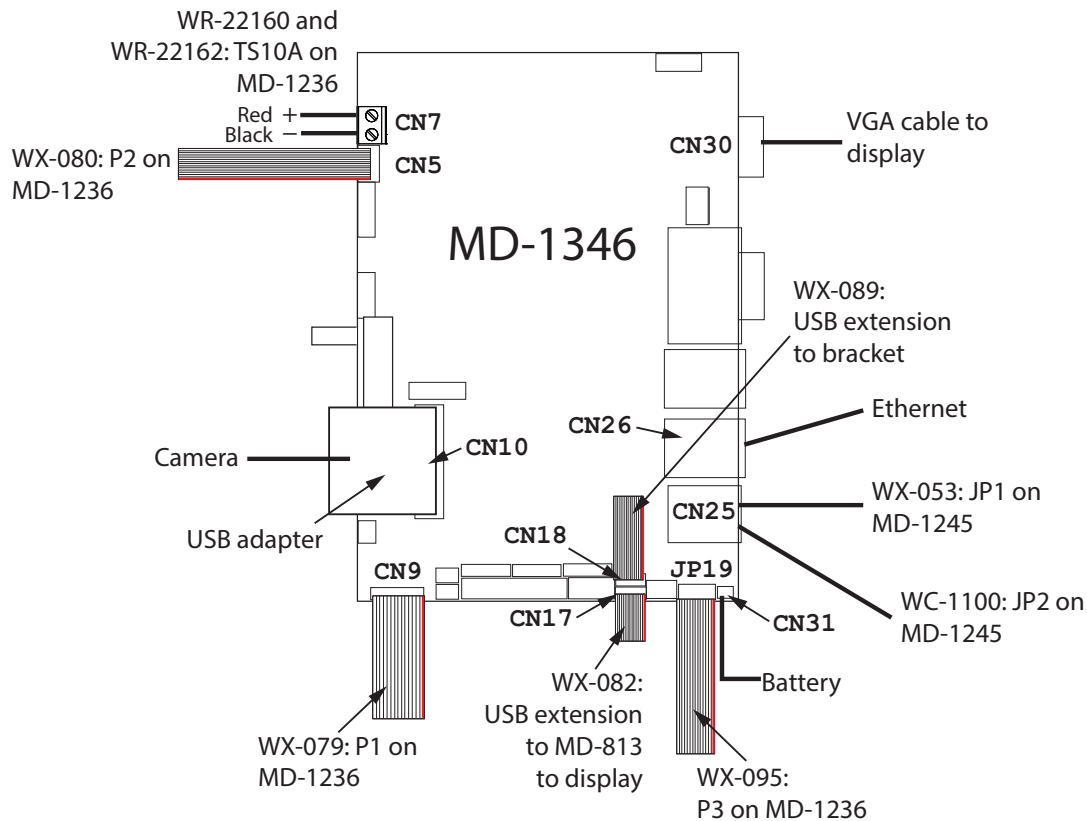
**Figure 99. Factory connections on the power supply and audio mixer board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D**



**Figure 100. Factory connections on the power button**



**Figure 101. Factory connections on the lobby controller board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D**



**Figure 102. Factory connections on the PC sub compact board for TX3-TOUCH-S22-D and TX3-TOUCH-F22-D**

CN30 on MD-1346

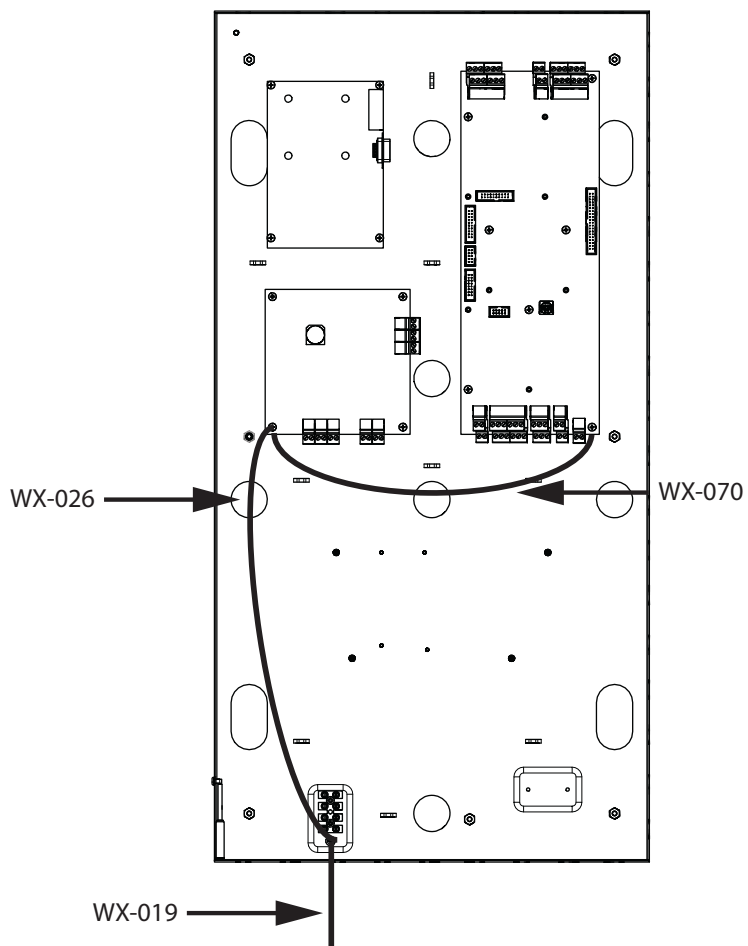


MD-813:  
to WX-082  
then to CN17  
on MD-1346

WC-25019: TS10B on  
MD-1236

**Figure 103. Display connections on TX3-TOUCH-S22-D and TX3-TOUCH-F22-D**

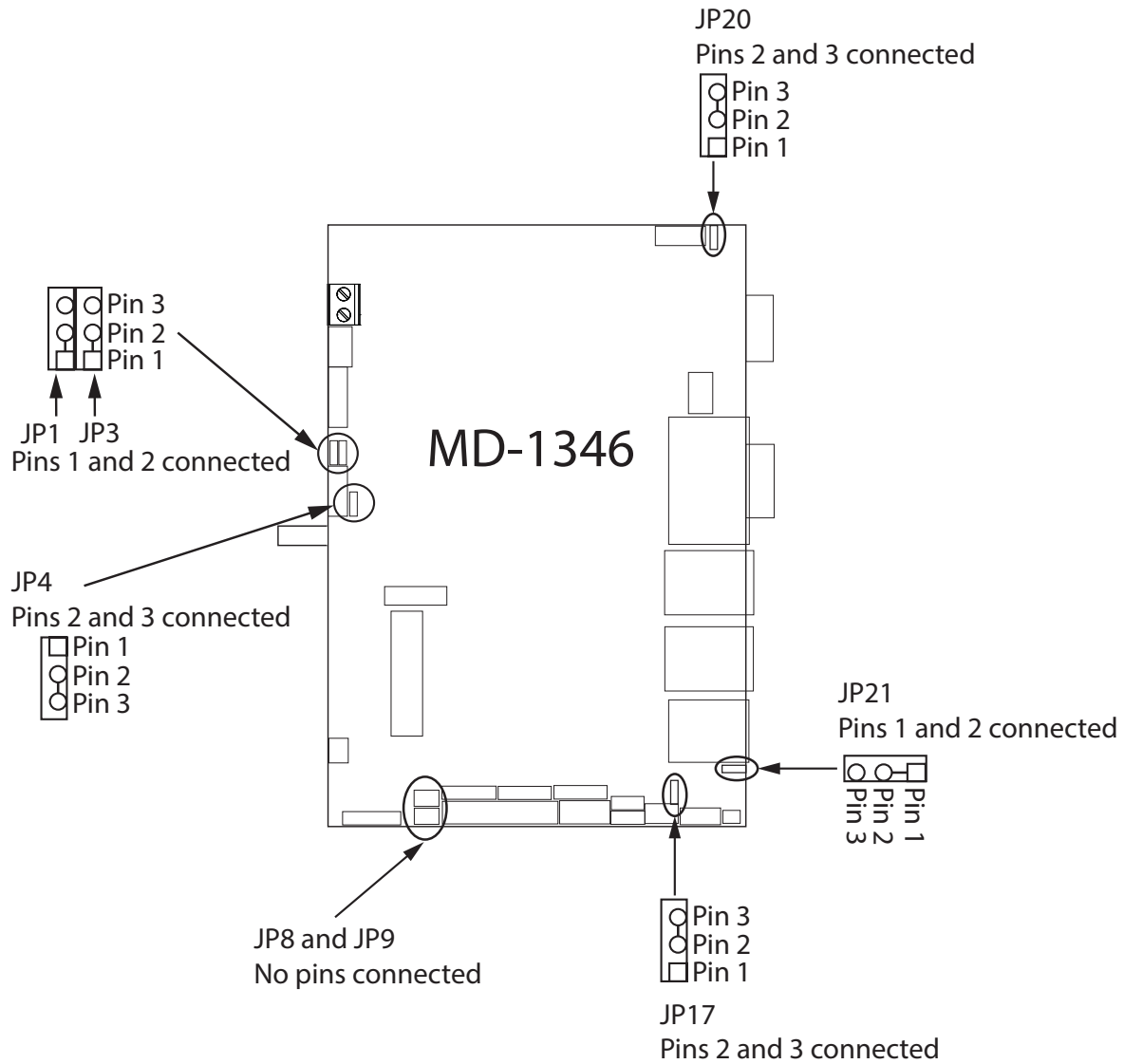
#### 4.3.4 Ground Wires on 22 inch Touch Screens



**Figure 104. Ground wires on 22 inch Touch Screens**



### 4.3.5 Default Jumper Settings on the MD-1346 PC Board



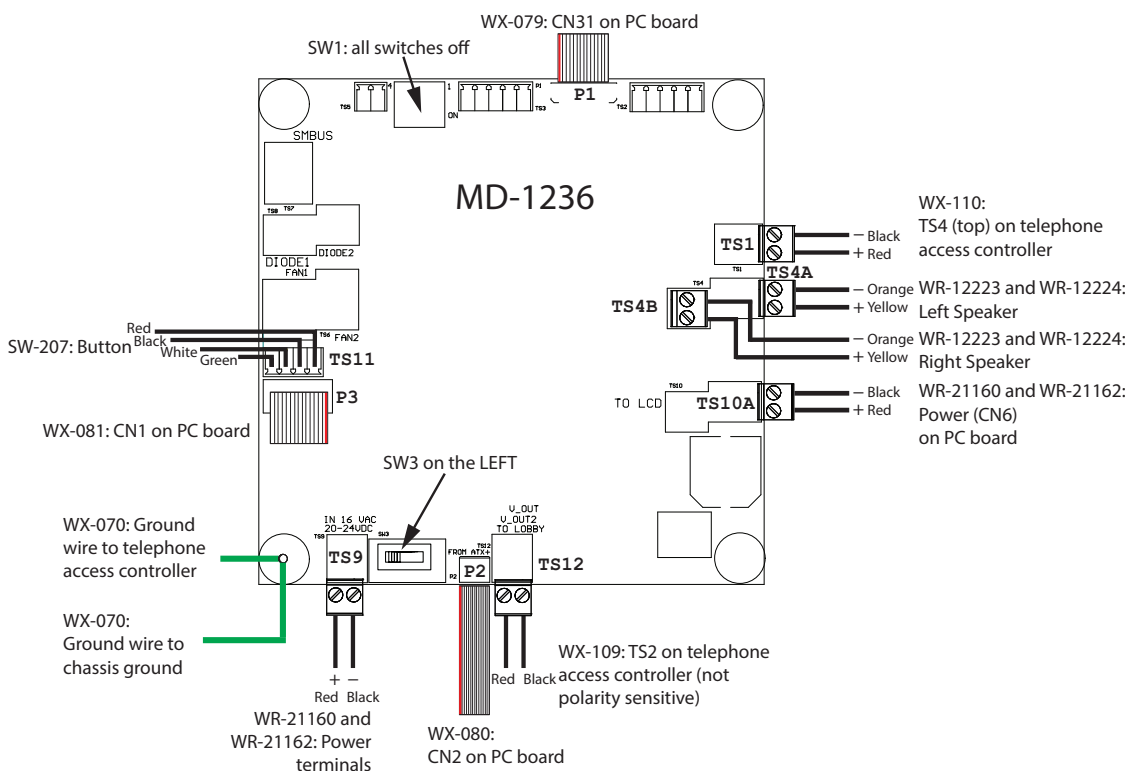
**Figure 105. Default jumper settings on MD-1346**

## 4.4 Factory Wiring for Models Ending in -C

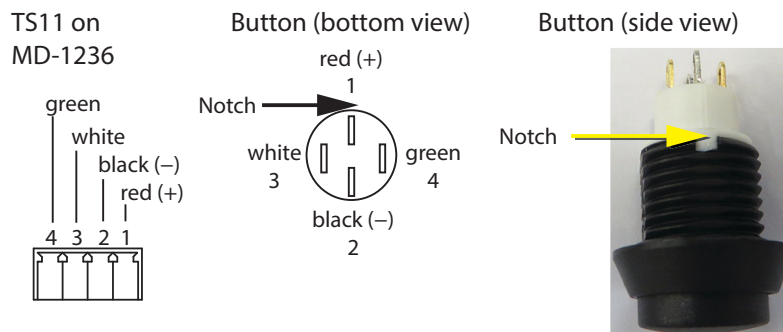
In these diagrams, MD refers to the Mircom part numbers of the circuit boards, and WX and WR refer to the Mircom part numbers of the cables.

### 4.4.1 Factory Wiring for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C

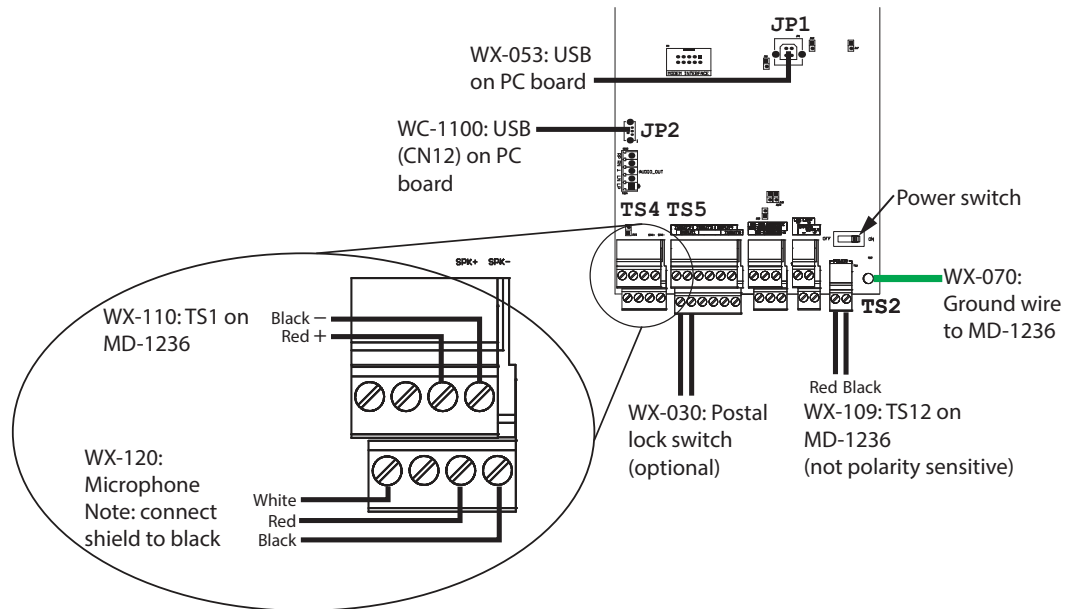
See Figure 98 for ground wires, and Figure 117 for default jumper settings on the MD-1062 PC board.



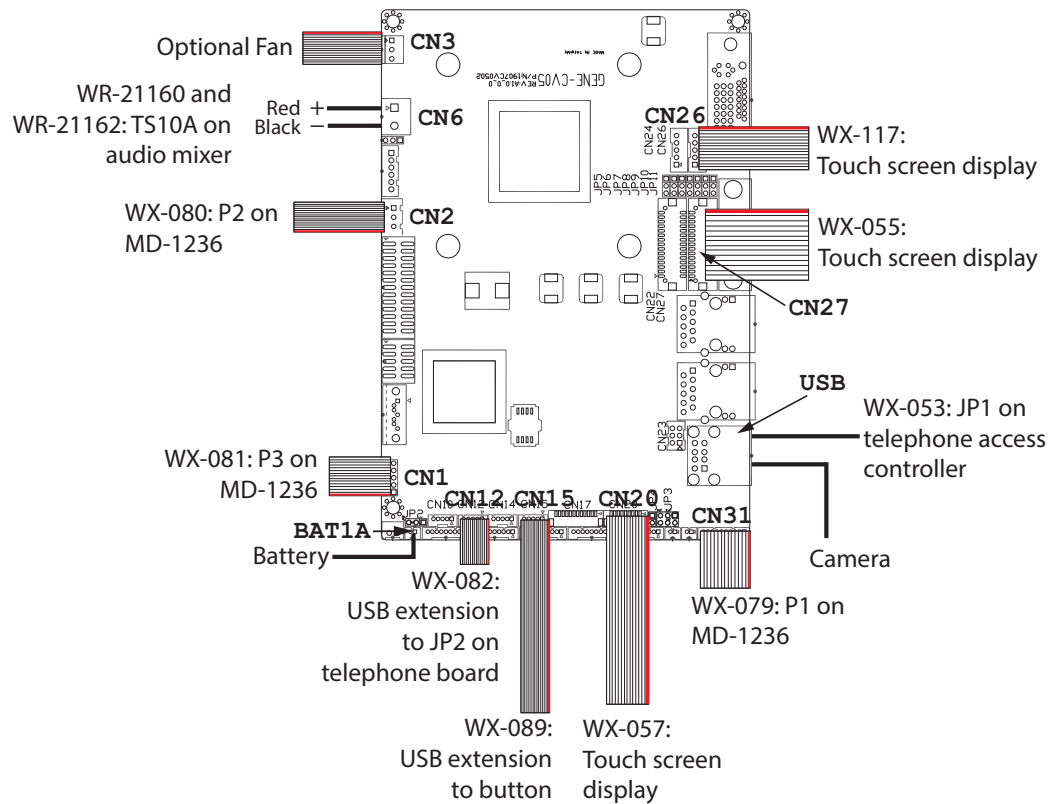
**Figure 106. Factory connections on the audio mixer board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C**



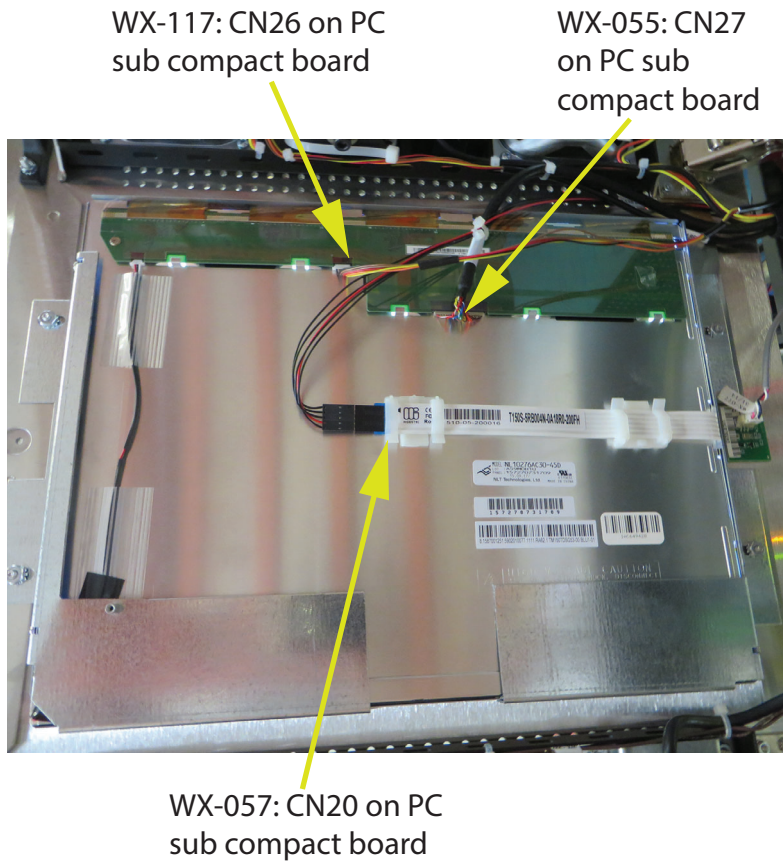
**Figure 107. Factory connections on the power button**



**Figure 108. Factory connections on the lobby controller board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C**

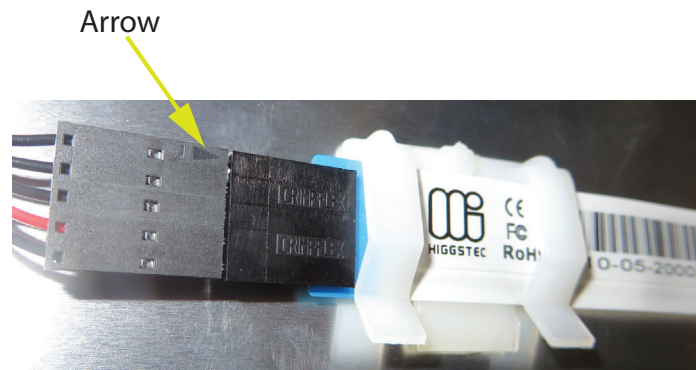


**Figure 109. Factory connections on the PC sub compact board for TX3-TOUCH-S15-C and TX3-TOUCH-F15-C**



**Figure 110. Display connections on TX3-TOUCH-S15-C and TX3-TOUCH-F15-C**

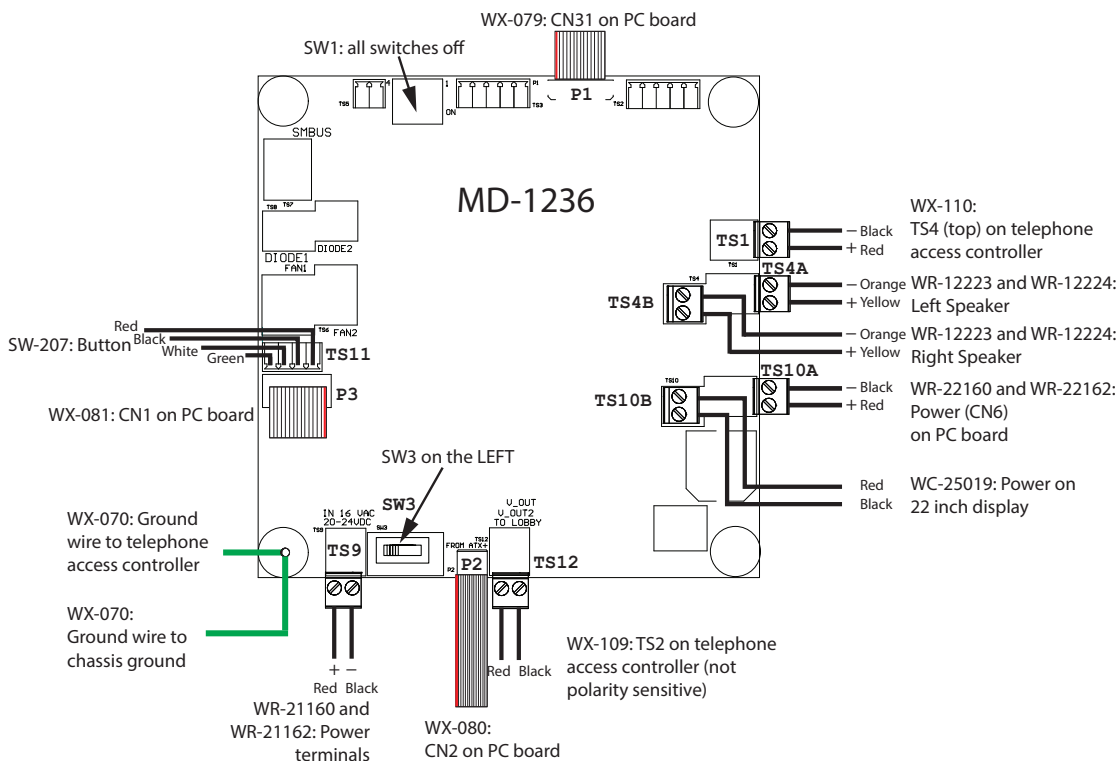
**Attention:** The bottom cable must be connected so that the arrow is on the outside.



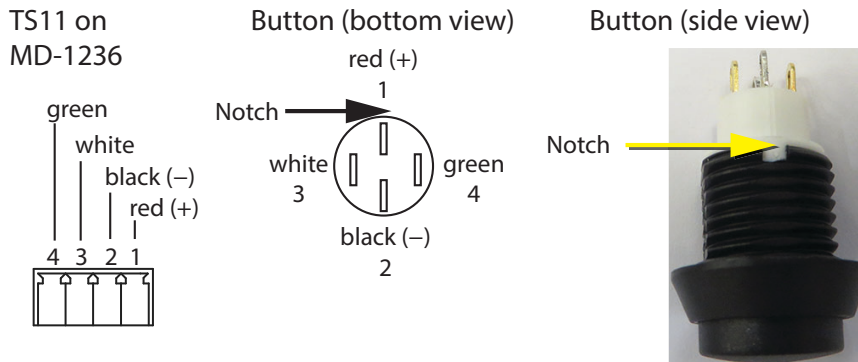
**Figure 111. Make sure that the arrow is visible**

## Factory Wiring for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C

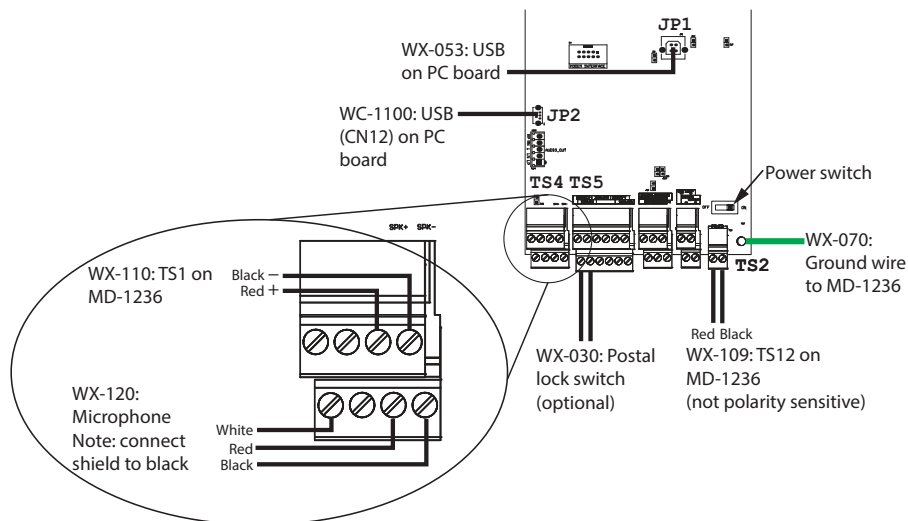
See Figure 104 for ground wires, and Figure 117 for default jumper settings on the MD-1062 PC board.



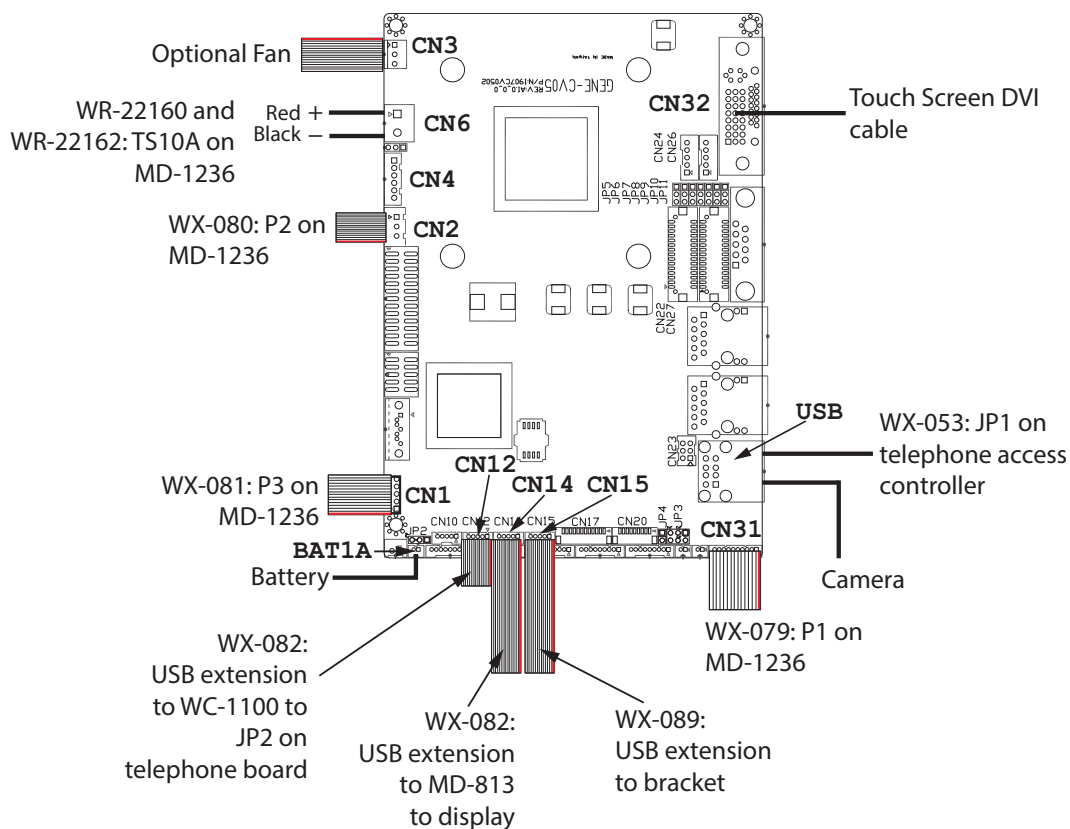
**Figure 112. Factory connections on the MD-1236 power supply and audio mixer board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C**



### Figure 113. Factory connections on the power button

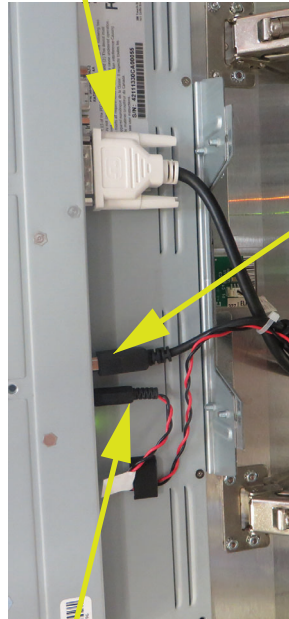


**Figure 114. Factory connections on the lobby controller board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C**



**Figure 115. Factory connections on the MD-1062 PC sub compact board for TX3-TOUCH-S22-C and TX3-TOUCH-F22-C**

CN32 on PC sub  
compact board



MD-813:  
WX-082 to CN14  
on PC sub  
compact board

WC-25019: TS10B on  
MD-1236

**Figure 116. Display connections on TX3-TOUCH-S22-C and TX3-TOUCH-F22-C**

### 4.4.3



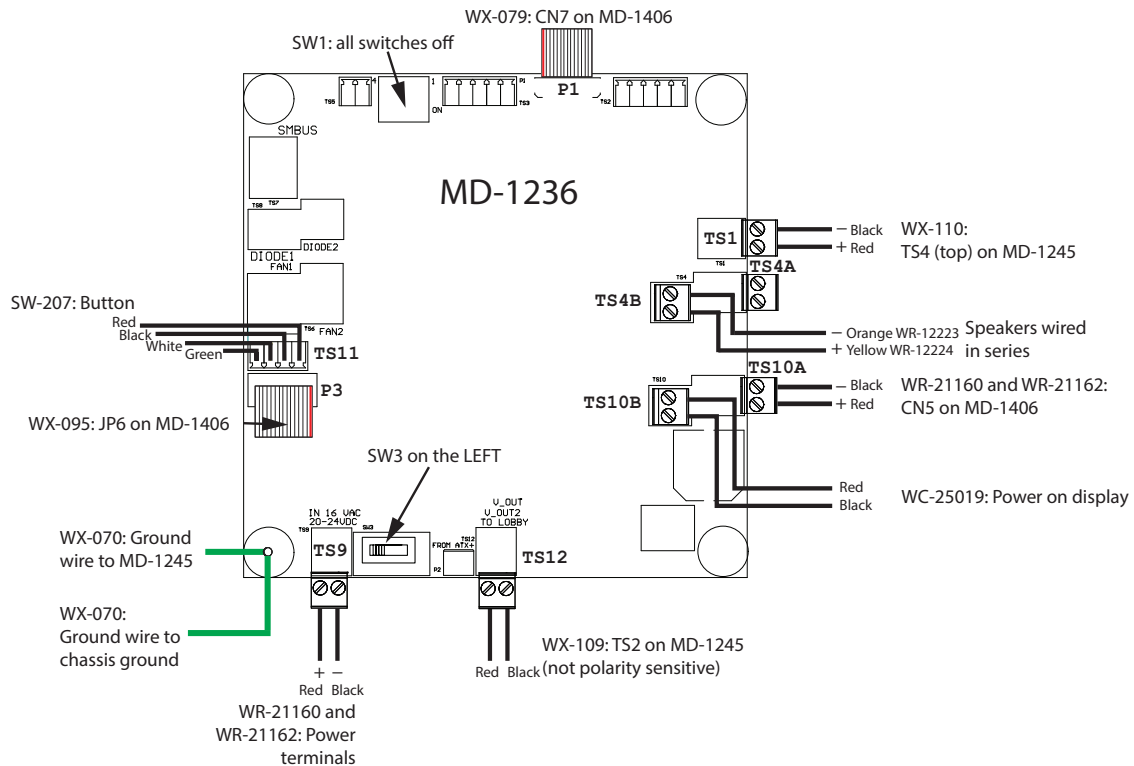
**Figure 117. Default jumper settings on MD-1062 PC board**



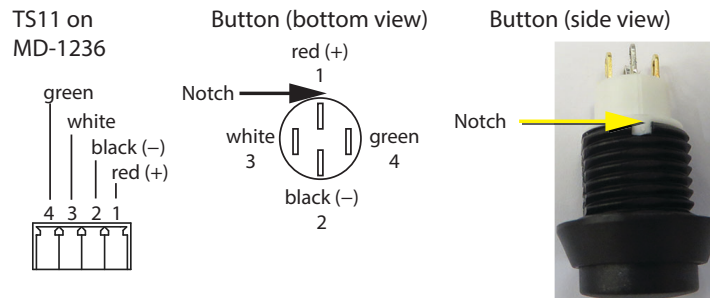
## 4.5 Factory Wiring for Outdoor Units

### 4.5.1 Factory Wiring for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A

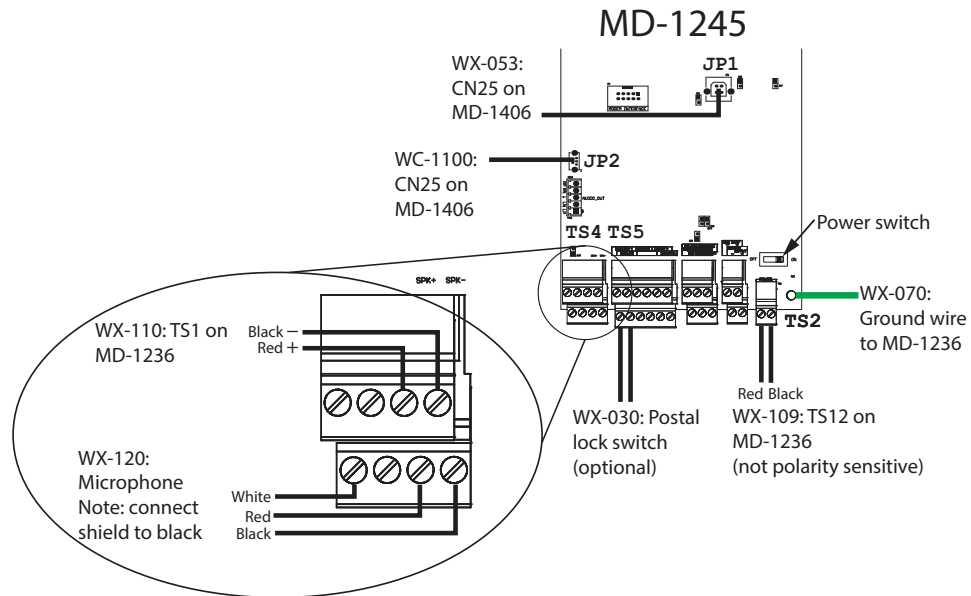
See Figure 98 for ground wires, and Figure 86 for default jumper settings on the MD-1406 PC board.



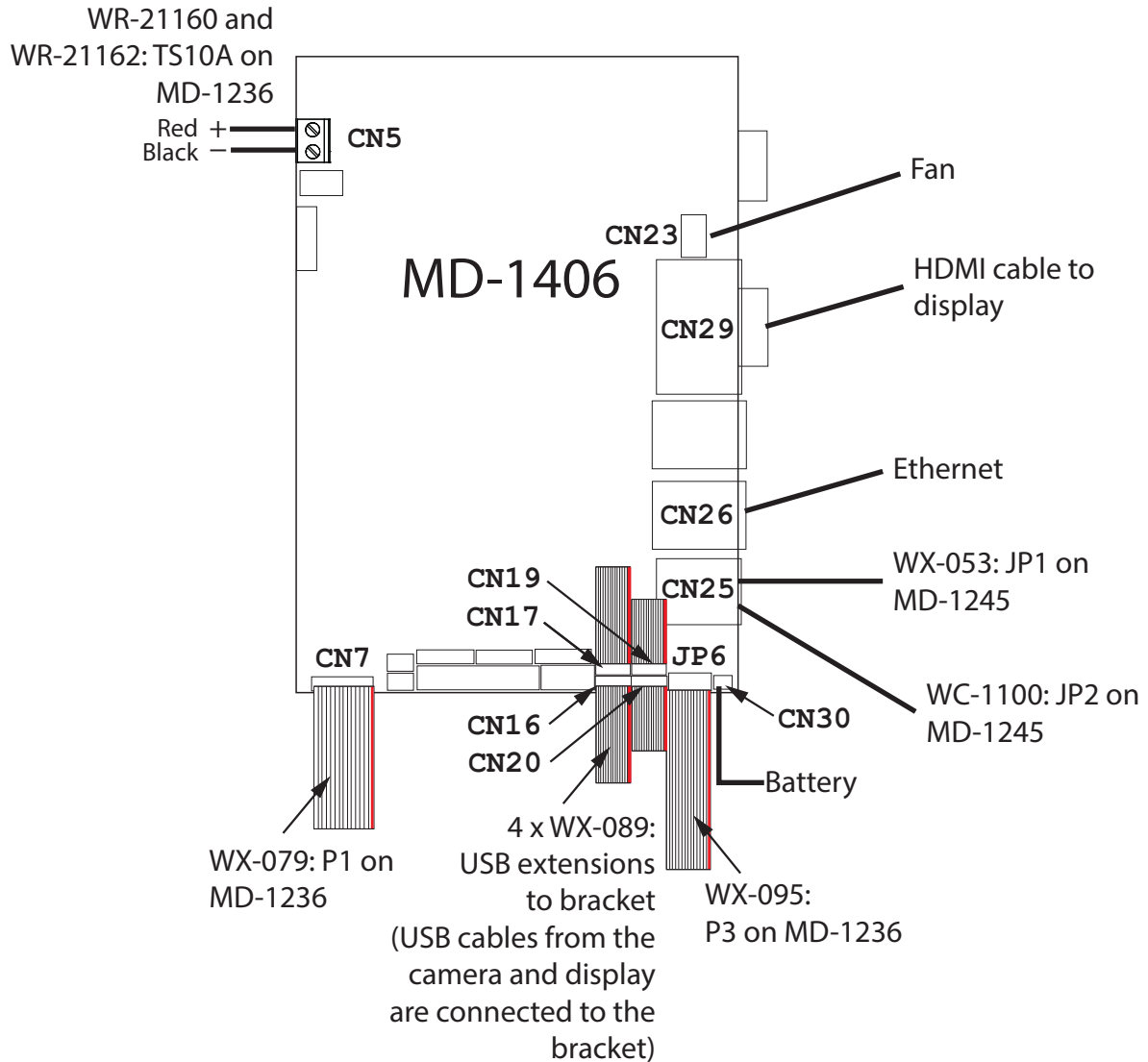
**Figure 118. Factory connections on the audio mixer board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A**



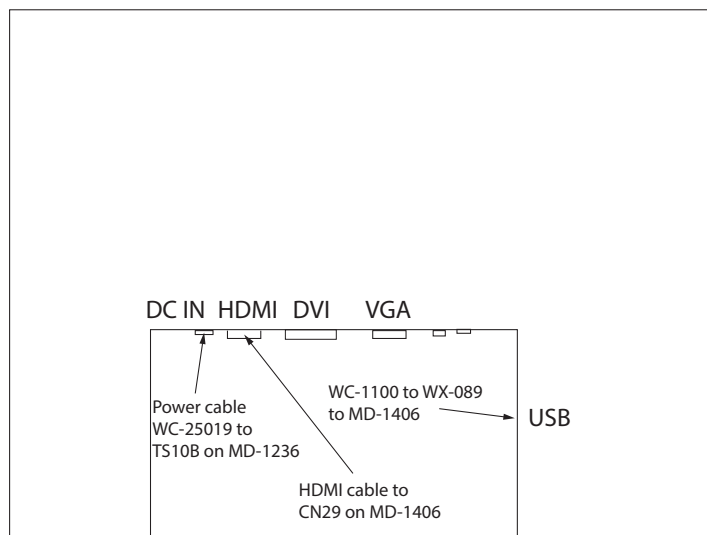
**Figure 119. Factory connections on the power button**



**Figure 120. Factory connections on the lobby controller board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A**



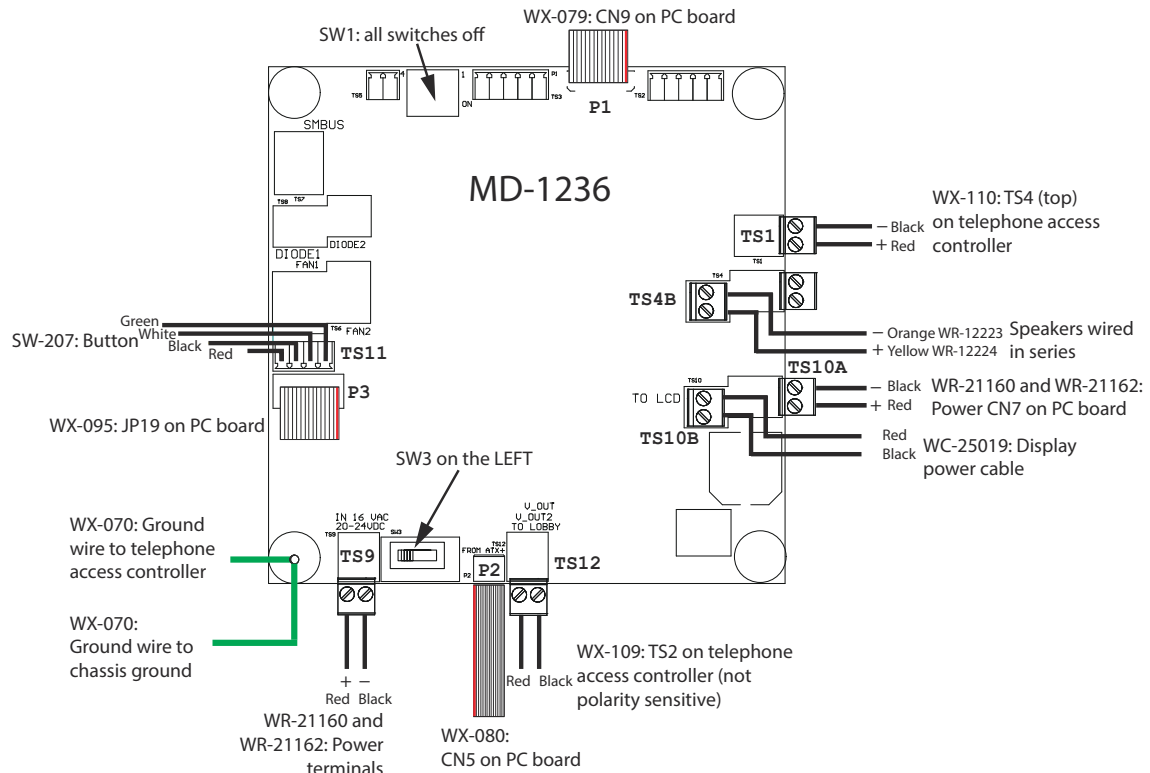
**Figure 121. Factory connections on the PC sub compact board for TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A**



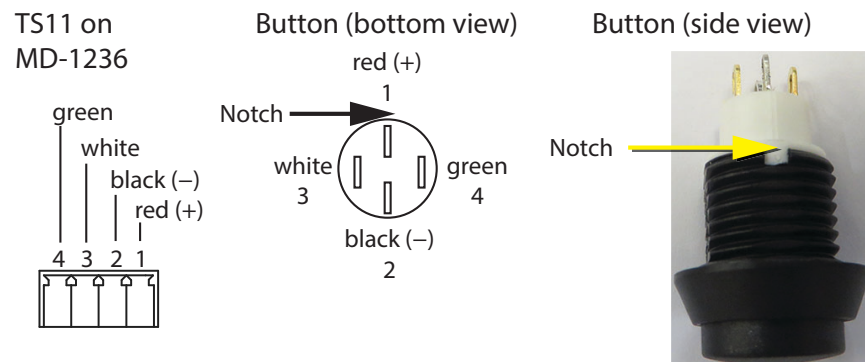
**Figure 122. Display connections on TX3-TOUCH-S15B-WR-A and TX3-TOUCH-S15S-WR-A**

## 4.5.2 Factory Wiring for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR

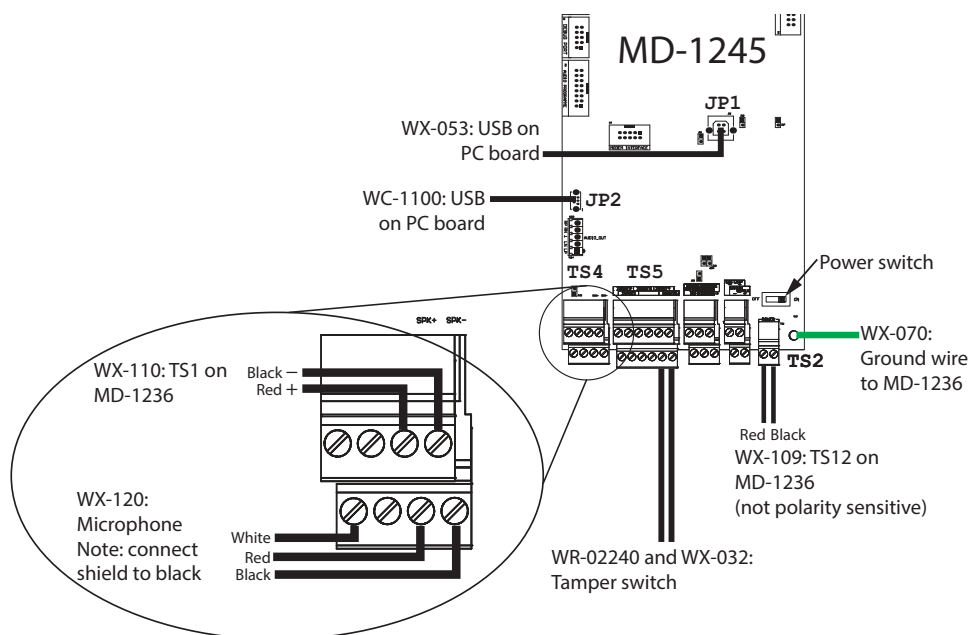
In these diagrams, WX and WR refer to the Mircom part numbers of the cables.



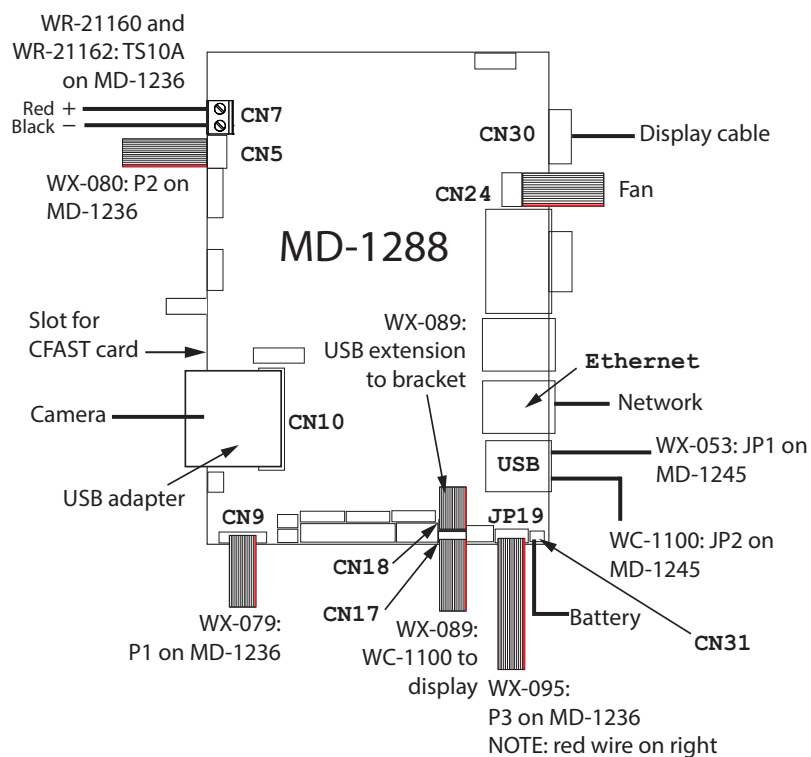
**Figure 123. Factory connections on the power supply and audio mixer board (MD-1236) for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**



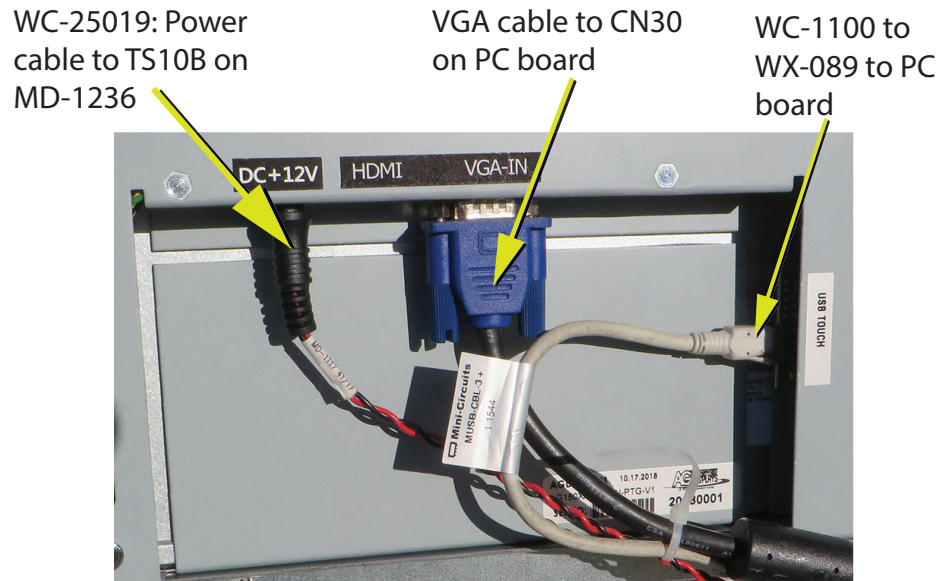
**Figure 124. Factory connections on the power button**



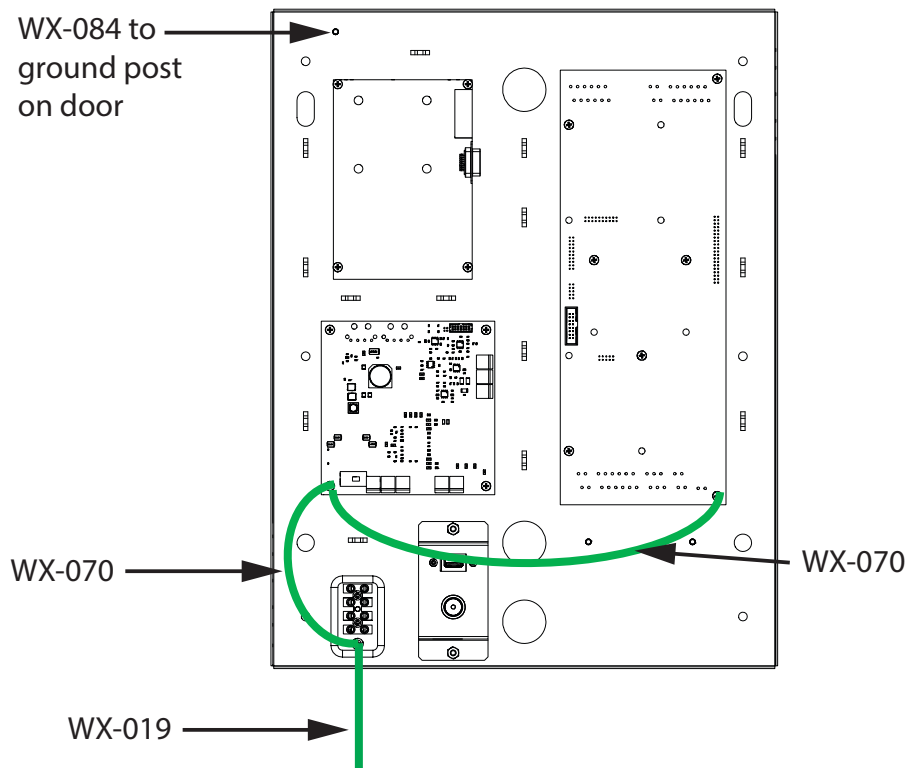
**Figure 125. Factory connections on the lobby controller board MD-1245 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**



**Figure 126. Factory connections on the PC board MD-1288 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**

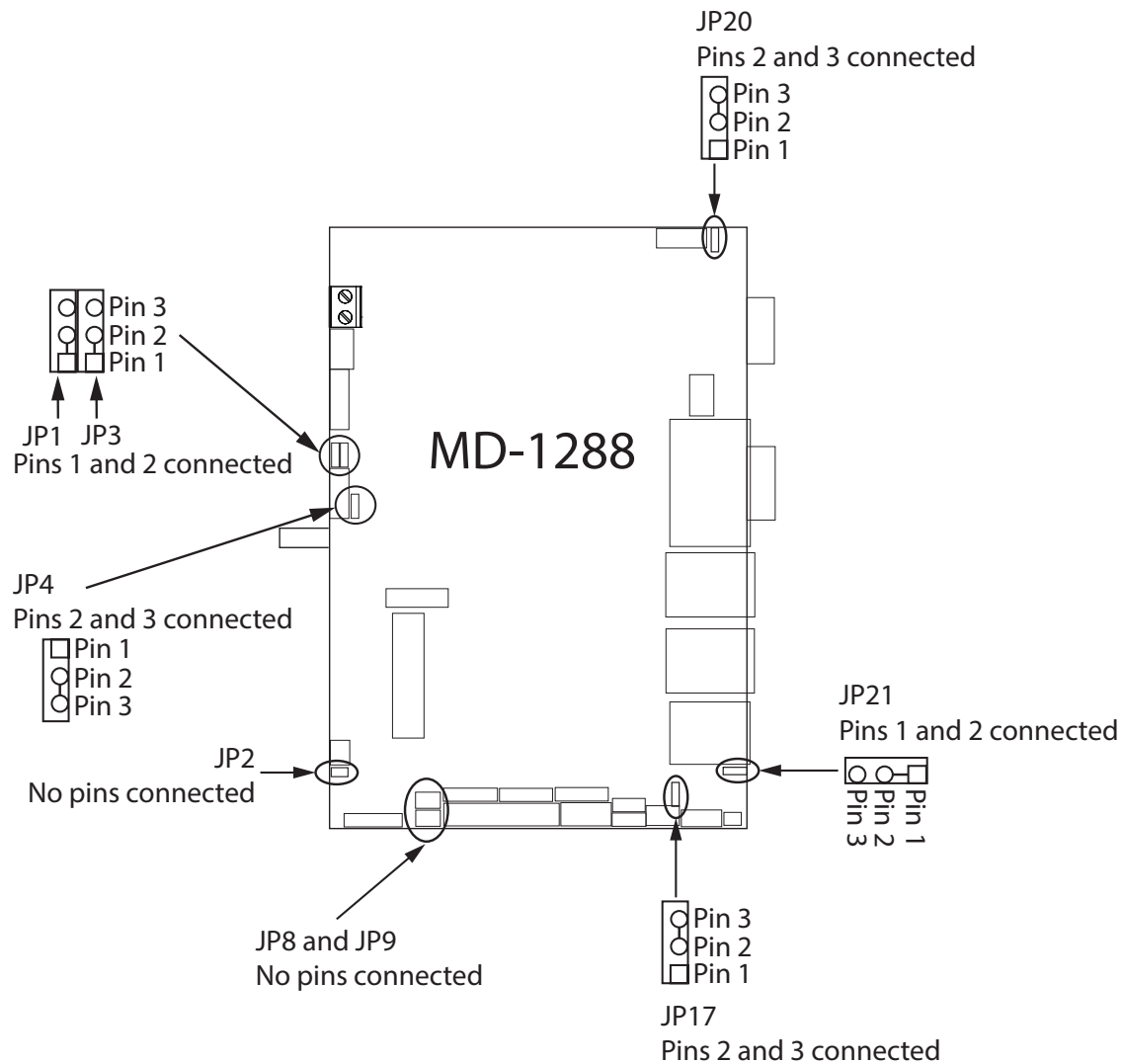


**Figure 127. Display connections for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**



**Figure 128. Ground wires for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**

### 4.5.3



**Figure 129. Default jumper settings on MD-1288 for TX3-TOUCH-S15B-WR and TX3-TOUCH-S15S-WR**



# 5 Adding Controllers

This chapter provides information about adding additional controllers on the same network as the Touch Screen.

## **This chapter explains**

- How to add the controller

---

**Attention:** If you use the TX3-MDM Modem Module to connect to and configure a Touch Screen, then you cannot configure the Touch Screen locally.

---

## 5.1 Adding a Controller

The TX3 Touch Screen may be integrated with other controllers, such as the Telephone and Card Access systems, through a peer-to-peer connection via the RS-485 bus.

Touch has a provision to add the TX3 Card Access controller inside the unit.

---

**Note:** Ensure that all network devices each have unique ID addresses.

---

### To integrate another controller

1. Ensure the Touch Screen and the controller are setup and ready for operation.
2. Turn the power OFF for Touch Screen and controller.
3. Connect the controller to the Touch Screen via the RS-485 bus using the RS-485 connectors.
4. Turn the power ON for the Touch Screen and controller.
5. Connect the PC to either the Touch Screen or controller using the USB port.
6. Use the TX3 Configurator Program to add and configure the controller to the network.

# 6 Specifications

## 6.1 Indoor Touch Screens

Models
TX3-TOUCH-F15-C, TX3-TOUCH-F15-D, TX3-TOUCH-F15-E TX3-TOUCH-S15-C, TX3-TOUCH-S15-D, TX3-TOUCH-S15-E TX3-TOUCH-S22-C, TX3-TOUCH-S22-D, TX3-TOUCH-S22-E, TX3-TOUCH-S22-F TX3-TOUCH-F22-C, TX3-TOUCH-F22-D, TX3-TOUCH-F22-E, TX3-TOUCH-F22-F
External Power Supply
TX3-PS24-5A 156 W, 24 V single output switching power supply Input voltage: 88 VAC to 132 VAC
TX3-TOUCH-F22-C/D/E/F and TX3-TOUCH-S22-C/D/E/F Power Consumption
0.8 A / 120 VAC
Door Strikes
<p>Select the appropriate door strike as required by your system applications. We recommend using the following Mircom door strikes below and its compatible power transformer.</p> <ul style="list-style-type: none"> <li>• <b>Mircom Model M-10.</b> DC (silent) or AC (buzzing) Door Strike. (Use PS-3B transformer)</li> </ul> <p>Note: The door strike must have its own separate power transformer. Do not tap or use the system power transformers. When using a different door strike and door strike transformer, the maximum strike load that may be switched through the control unit is 28 VAC or 1 Amp DC. The maximum supply for the AC or DC Input Door Strike must not exceed:</p> <ul style="list-style-type: none"> <li>• 28 VAC / 1 A max.</li> <li>• 30 VDC / 1 A max.</li> </ul>
Outputs 2-4
<p>Relays with these contact ratings:</p> <ul style="list-style-type: none"> <li>• 125 VAC / 2 A</li> <li>• 30 VDC / 1 A</li> </ul>
Telephone Lines
Use only Loop Start telephones (not ground start), check with your local telephone company.

<b>Post Office Lock</b>
The system has a built-in micro switch and mounting hardware for a postal lock installation. If a postal service is required, contact the Post Office to obtain the lock.
<b>Operating Temperature</b>
0 °C (32 °F) to 50 °C (122 °F) Do not operate the Touch Screen below 0 °C (32 °F) at any time. For indoor use only.
<b>Humidity</b>
92% relative humidity at 30 °C

## 6.2 Weather-Resistant Touch Screens

<b>Models</b>
TX3-TOUCH-S15B-WR, TX3-TOUCH-S15S-WR TX3-TOUCH-S15B-WR-A, TX3-TOUCH-S15S-WR-A
<b>Display</b>
6.4 mm Thick Glass Touch Screen Display, 1600 nits High Brightness
<b>Camera</b>
Up to 8 megapixels (software enhanced)
<b>Power</b>
TX3-PS24-5A 156 W, 24 V single output switching power supply Input voltage: 88 VAC to 132 VAC
<b>Operating Temperature</b>
-20 °C (-4 °F) to 50 °C (122 °F)
<b>Humidity</b>
92% relative humidity at 30 °C
<b>Approvals</b>
Industry Canada
<b>Optional Components</b>
IP pinhole camera

Door Strikes
<p>Select the appropriate door strike as required by your system applications. We recommend using the following Mircom door strikes below and its compatible power transformer.</p> <ul style="list-style-type: none"><li>• <b>Mircom Model M-10.</b> DC (silent) or AC (buzzing) Door Strike. (Use PS-3B transformer)</li></ul> <p>Note: The door strike must have its own separate power transformer. Do not tap or use the system power transformers. When using a different door strike and door strike transformer, the maximum strike load that may be switched through the control unit is 28 VAC or 1 Amp DC.</p> <p>The maximum supply for the AC or DC Input Door Strike must not exceed:</p> <ul style="list-style-type: none"><li>• 28 VAC / 1 A max.</li><li>• 30 VDC / 1 A max.</li></ul>
Outputs 2-4
<p>Relays with these contact ratings:</p> <ul style="list-style-type: none"><li>• 125 VAC / 2 A</li><li>• 30 VDC / 1 A</li></ul>
Telephone Lines
<p>Use only Loop Start telephones (not ground start), check with your local telephone company.</p>
Post Office Lock
<p>Mircom sells a postal lock enclosure for use external to the unit: part number TX3-PL-ENCL.</p>

## 6.3 RS-485 TX3-USB-AD Kit

The TX3-USB-AD kit converts RS-485 signals to USB. It mounts on the TX3 Telephone or Card Access controller boards. For installation instructions see LT-6027 TX3-USB-AD Installation Instructions.

## 6.4 TX3-GPM Guard Phone Module

The guard phone connects via a telephone cable to the Guard Phone Module on the Touch Screen. The TX3-GPM Guard Phone Module mounts on the TX3 Telephone controller board. For installation instructions see LT-972 TX3-GPM Guard Phone Module Installation Instructions.

## **6.5 TX3-CX-1NP**

Single door controller module for card access control. See LT-5997 for instructions on installing TX3-CX-1NP.

## **6.6 TX3-WIEGAND-OUT**

Wiegand Output Module. See LT-6682 TX3-WIEGAND-OUT Installation Instructions.

# 7 Resident Operating Instructions

This chapter describes the Touch Screen operating instructions for use by the resident.

## **This chapter explains**

- NSL Resident Operating Instructions
- ADC Resident Operating Instructions

## 7.1 NSL Resident Operating Instructions

Mircom's state-of-the-art Touch Screen door entry system provides you and your guest with an increased level of confidence and security.

Touch Screen operates with your existing telephone. Your guest dials your code number or selects your name by scrolling through the visual directory on the Touch Screen unit, causing your telephone to ring.

---

**Note:** The telephone keypad numbers described in this chapter may be different for your system. If the keypad numbers do not perform as described, check with your building administrator to get the correct values.

---

### 7.1.1 Granting Access

When you answer your telephone, you will be in communication with your guest.

#### To unlock the main door

- Press 9 on your telephone keypad. If your unit is assigned a specific code for the main door then enter this code followed by the pound (#) key.

#### To unlock the auxiliary door

- Press 6 on your telephone keypad. If your unit is assigned a specific code for the auxiliary door then enter this code followed by the pound (#) key.

#### To refuse entry

- Hang up **or**
- Press 4. If your unit uses a code for door entry, press 4 followed by the pound (#) key.

### 7.1.2 Keyless Entry Codes

The keyless code is a confidential number assigned to each resident by the building administrator to let you open the front lobby door without using a key.

#### To unlock the front door

1. Press 0. The keyless code prompt appears.
2. Enter the keyless code. The front door unlocks.



### 7.1.3 Call Waiting Feature

When a guest places a call to you from the Touch Screen while you are engaged in a conversation on your outside telephone line, you will hear a distinct tone.

#### To answer the call

1. Briefly push the call waiting key to answer the call. This action automatically places the outside telephone line on hold.
2. While on-line with your guest, you can open the main door by dialing 9. If your unit is assigned a specific code for the main door then enter this code followed by the pound (#) key.
3. To refuse entry, press 4. If your unit uses a code for door entry, press 4 followed by the pound (#) key. This disconnects the telephone from the Touch Screen.

To continue your conversation, press 9, 6 or 4 to automatically reconnect to the previously on hold caller.

If your unit uses codes for door entry press either of the codes for allowing entry through the main or auxiliary doors followed by the pound (#) key or press 4 followed by the pound (#) key.

In a similar manner, you can answer an outside call while talking to the guest in the lobby.

---

<b>Note:</b>	You will be disconnected if you attempt to place your guest on hold.
--------------	--

---

## 7.2 ADC Resident Operating Instructions

Mircom's state-of-the-art Touch Screen door entry system provides you and your guest with an increased level of confidence and security.

Touch Screen operates with your existing telephone. Your guest dials your code number or selects your name by scrolling through the visual directory on the Touch Screen unit, causing your telephone to ring.

---

**Note:** The telephone keypad numbers described in this chapter may be different for your system. If the keypad numbers do not perform as described, check with your building administrator to get the correct values.

---

### 7.2.1 Granting Access

When you answer your telephone, you will be in communication with your guest.

#### To unlock the main door

- Press 9 on your telephone keypad. If your unit is assigned a specific code for the main door then enter this code followed by the pound (#) key.

#### To unlock the auxiliary door

- Press 6 on your telephone keypad. If your unit is assigned a specific code for the auxiliary door then enter this code followed by the pound (#) key.

#### To refuse entry

- Hang up **or**
- Press 4. If your unit uses a code for door entry, press 4 followed by the pound (#) key.

### 7.2.2 Keyless Entry Codes

The keyless code is a confidential number assigned to each resident by the building administrator to let you open the front lobby door without using a key.

#### To unlock the front door

1. Press 0. The keyless code prompt appears.
2. Enter the keyless code. The front door unlocks.

# 8 Warranty and Warning Information

## WARNING!

Please read this document **CAREFULLY**, as it contains important warnings, life-safety, and practical information about all products manufactured by the Mircom Group of Companies, including Mircom and Secutron branded products, which shall include without limitation all fire alarm, nurse call, building automation and access control and card access products (hereinafter individually or collectively, as applicable, referred to as “**Mircom System**”).

### NOTE TO ALL READERS:

1. **Nature of Warnings.** The within warnings are communicated to the reader out of an abundance of caution and create no legal obligation for Mircom Group of Companies, whatsoever. Without limiting the generality of the foregoing, this document shall NOT be construed as in any way altering the rights and obligations of the parties, governed by the legal documents that apply in any given circumstance.
2. **Application.** The warnings contained in this document apply to all Mircom System and shall be read in conjunction with:
  - a. the product manual for the specific Mircom System that applies in given circumstances;
  - b. legal documents that apply to the purchase and sale of a Mircom System, which may include the company’s standard terms and conditions and warranty statements;
  - c. other information about the Mircom System or the parties’ rights and obligations as may be application to a given circumstance.
3. **Security and Insurance.** Regardless of its capabilities, no Mircom System is a substitute for property or life insurance. Nor is the system a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation. Building automation systems produced by the Mircom Group of Companies are not to be used as a fire, alarm, or life-safety system.

## NOTE TO INSTALLERS:

All Mircom Systems have been carefully designed to be as effective as possible. However, there are circumstances where they may not provide protection. Some reasons for system failure include the following. As the only individual in contact with system users, please bring each item in this warning to the attention of the users of this Mircom System. Failure to properly inform system end-users of the circumstances in which the system might fail may result in over-reliance upon the system. As a result, it is imperative that you properly inform each customer for whom you install the system of the possible forms of failure:

4. **Inadequate Installation.** All Mircom Systems must be installed in accordance with all the applicable codes and standards in order to provide adequate protection. National standards require an inspection and approval to be conducted by the local authority having jurisdiction following the initial installation of the system and following any changes to the system. Such inspections ensure installation has been carried out properly.
5. **Inadequate Testing.** Most problems that would prevent an alarm a Mircom System from operating as intended can be discovered by regular testing and maintenance. The complete system should be tested by the local authority having jurisdiction immediately after a fire, storm, earthquake, accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

## NOTE TO USERS:

All Mircom Systems have been carefully designed to be as effective as possible. However, there are circumstances where they may not provide protection. Some reasons for system failure include the following. The end user can minimize the occurrence of any of the following by proper training, testing and maintenance of the Mircom Systems:

6. **Inadequate Testing and Maintenance.** It is imperative that the systems be periodically tested and subjected to preventative maintenance. Best practices and local authority having jurisdiction determine the frequency and type of testing that is required at a minimum. Mircom System may not function properly, and the occurrence of other system failures identified below may not be minimized, if the periodic testing and maintenance of Mircom Systems is not completed with diligence and as required.
7. **Improper Operation.** It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm. A Mircom System may not function as intended during an emergency situation where the user is

unable to operate a panic or emergency switch by reason of permanent or temporary physical disability, inability to reach the device in time, unfamiliarity with the correct operation, or related circumstances.

8. **Insufficient Time.** There may be circumstances when a Mircom System will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time enough to protect the occupants or their belongings.
9. **Carelessness or Safety Hazards.** Moreover, smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits or children playing with matches or arson.
10. **Power Failure.** Some Mircom System components require adequate electrical power supply to operate. Examples include: smoke detectors, beacons, HVAC, and lighting controllers. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage Mircom Systems or other electronic equipment. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.
11. **Battery Failure.** If the Mircom System or any device connected to the system operates from batteries it is possible for the batteries to fail. Even if the batteries have not failed, they must be fully charged, in good condition, and installed correctly. Some Mircom Systems use replaceable batteries, which have a limited life-span. The expected battery life is variable and in part dependent on the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. Moreover, some Mircom Systems do not have a battery monitor that would alert the user in the event that the battery is nearing its end of life. Regular testing and replacements are vital for ensuring that the batteries function as expected, whether or not a device has a low-battery monitor.
12. **Physical Obstructions.** Motion sensors that are part of a Mircom System must be kept clear of any obstacles which impede the sensors' ability to detect movement. Signals being communicated by a Mircom System may not reach the receiver if an item (such as metal, water, or concrete) is placed on or near the radio path. Deliberate jamming or other inadvertent radio signal interference can also negatively affect system operation.
13. **Wireless Devices Placement Proximity.** Moreover all wireless devices must be a minimum and maximum distance away from large metal objects, such as refrigerators. You are required to consult the specific Mircom System manual and application guide for any maximum distances required between devices and suggested placement of wireless devices for optimal functioning.

14. **Failure to Trigger Sensors.** Moreover, Mircom Systems may fail to operate as intended if motion, heat, or smoke sensors are not triggered.
  - a. Sensors in a fire system may fail to be triggered when the fire is in a chimney, walls, roof, or on the other side of closed doors. Smoke and heat detectors may not detect smoke or heat from fires on another level of the residence or building. In this situation the control panel may not alert occupants of a fire.
  - b. Sensors in a nurse call system may fail to be triggered when movement is occurring outside of the motion sensors' range. For example, if movement is occurring on the other side of closed doors or on another level of the residence or building the motion detector may not be triggered. In this situation the central controller may not register an alarm signal.
15. **Interference with Audible Notification Appliances.** Audible notification appliances may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners, appliances, or passing traffic. Audible notification appliances, however loud, may not be heard by a hearing-impaired person.
16. **Other Impairments.** Alarm notification appliances such as sirens, bells, horns, or strobes may not warn or waken a sleeping occupant if there is an intervening wall or door. It is less likely that the occupants will be alerted or awakened when notification appliances are located on a different level of the residence or premise.
17. **Software Malfunction.** Most Mircom Systems contain software. No warranties are provided as to the software components of any products or stand-alone software products within a Mircom System. For a full statement of the warranties and exclusions and limitations of liability please refer to the company's standard Terms and Conditions and Warranties.
18. **Telephone Lines Malfunction.** Telephone service can cause system failure where telephone lines are relied upon by a Mircom System. Alarms and information coming from a Mircom System may not be transmitted if a phone line is out of service or busy for a certain period of time. Alarms and information may not be transmitted where telephone lines have been compromised by criminal tampering, local construction, storms or earthquakes.
19. **Component Failure.** Although every effort has been made to make this Mircom System as reliable as possible, the system may fail to function as intended due to the failure of a component.
20. **Integrated Products.** Mircom System might not function as intended if it is connected to a non-Mircom product or to a Mircom product that is deemed non-compatible with a particular Mircom System. A list of compatible products can be requested and obtained.

# Warranty

**Purchase of all Mircom products is governed by:**

<https://www.mircom.com/product-warranty>

<https://www.mircom.com/purchase-terms-and-conditions>

<https://www.mircom.com/software-license-terms-and-conditions>

## Special Notices

### Product Model Number: TX3

AC REN (U.S.): 0.0B

AC REN (CANADA): 0.0

### Complies With

#### **Federal Communications Commission (FCC):**

- TIA-968-A Technical requirement for connection of equipment to the telephone network.
- CFR 47, Part 15, Subpart B, Class B
- Unintentional Radiators

#### **Industry Canada (IC):**

- Terminal attachment programme
- CS-03, Issue 8 - Certification Specifications
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- CAN ICES-3 (B)/NMB-3(B)

### Registration Numbers

FCC (U.S.): 1M8TE00BTX3

IC (Canada): 1156A-TX3

### Industry Canada Notice for all TX3 Products Sold in Canada

The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. Industry Canada 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 telecommunication 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 degradations of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alteration made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the earth ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This is necessary both for proper operation and for protection.

---

**Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

---

---

**Note:** 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 RENs of all the devices does not exceed five.

---

## FCC Notice for all TX3 Products Sold in the U.S.A.

### Type of Service

The TX3 is designed to be used on standard device telephone lines. It connects to the telephone line by means of a standard jack called the USOC RJ-11C (or USOC FJ45S). Connection to telephone company-provided coin service (central office implemented systems) is prohibited. Connection to party lines service is subject to state tariffs.

### Telephone Company Procedures

The goal of the telephone company is to provide you with the best service it can. In order to do this, it may occasionally be necessary for them to make changes in their equipment, operations or procedures. If these changes might affect your service or the operation of your equipment, the telephone company will give you notice, in writing, to allow you to make any changes necessary to maintain uninterrupted service.

In certain circumstances, it may be necessary for the telephone company to request information from you concerning the equipment which you have connected to your telephone line. Upon request of the telephone company,

provide the FCC registration number and the ringer equivalence number (REN); both of these items are listed on the equipment label. The sum of all of the RENs on your telephone lines should be less than five in order to assure proper service from the telephone company. In some cases, a sum of five may not be useable on a given line.

## **Changes to Telephone Service**

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 advance notice in order for you to make necessary modifications to maintain uninterrupted service.

## **Ringer Equivalence Number**

The REN is used to determine the number of 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 RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company. For products approved after July 23, 2001, the REN for this product is Customer Information 3 July 2003 part of the product identifier that has the format US:AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

## **If Problems Arise**

If any of your telephone equipment is not operating properly, you should immediately remove it from your telephone line, as it may cause harm to the telephone network. If the telephone company notes a problem, they may temporarily discontinue service. When practical, they will notify you in advance of this disconnection. If advance notice is not feasible, you will be notified as soon as possible. When you are notified, you will be given the opportunity to correct the problem and informed of your right to file a complaint with the FCC. Contact your telephone company if you have any questions about your telephone line. In the event repairs are ever needed on the Communicator, they should be performed by Mircom or an authorized representative of Mircom. For information contact Mircom at the address and telephone numbers on page 2.

If this equipment, TX3 Telephone System, causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

## **Product Identifier**

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the back of the front panel cover of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

## **Telephone Connection**

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. You are responsible for installing a compliant telephone cord and modular plug into this product as described in this manual. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

## **Equipment Failure**

If trouble is experienced with the TX3 Telephone/Card Access System, for repair or warranty information, please contact Mircom using the numbers on page 2. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

## **Use With Alarm Auto Dialers**

If your institution has specially wired alarm equipment connected to the telephone line, ensure the installation of the TX3 Telephone/Card Access System does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.