



Modular Case 20mm and 23mm Pitch Signs

Quick Install Guide

November 15, 2012

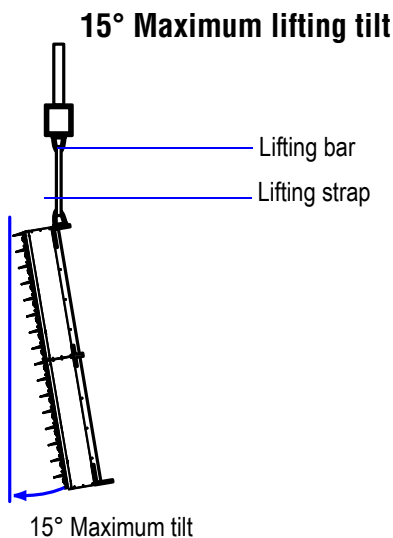
Dynamic outdoor advertising solutions

Part Number 1709610201 rev. A

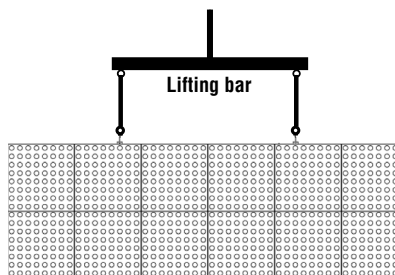


1

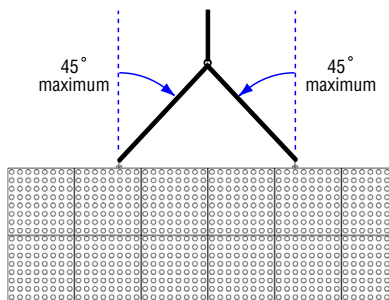
Lifting the Sign



PREFERRED METHOD



ALTERNATE METHOD

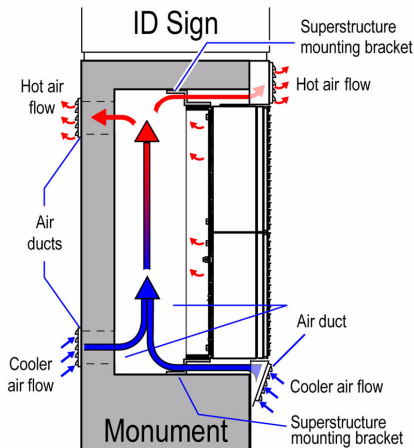


2

Venting Requirements

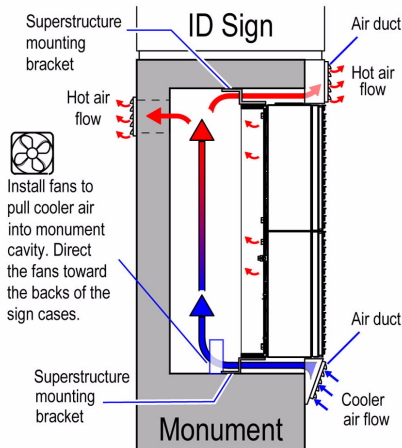
Single Sided Display

Recommended ventilation method



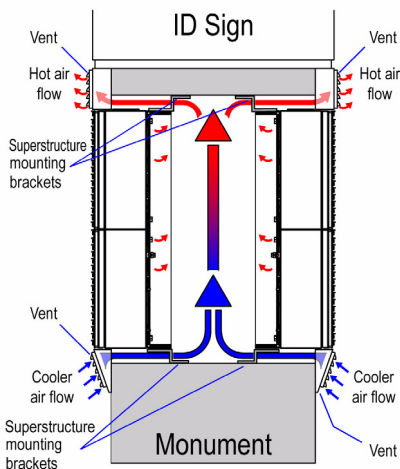
Alternate ventilation method

• RECOMMENDED FOR HIGH-TEMPERATURE ENVIRONMENTS

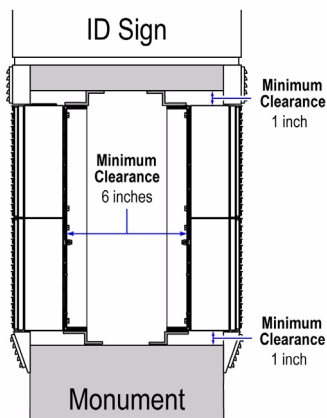


Double Sided Display

Recommended ventilation method



Clearance requirements



Note: Adaptive highly recommends that displays be vented at the top and bottom to accommodate natural air circulation.



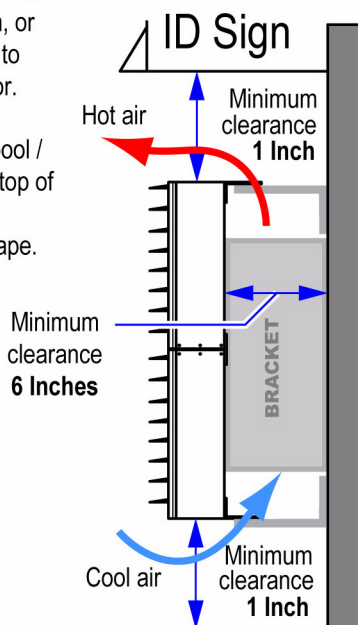
A photograph of the venting must be included with the Warranty Activation Checklist (WAC).

3

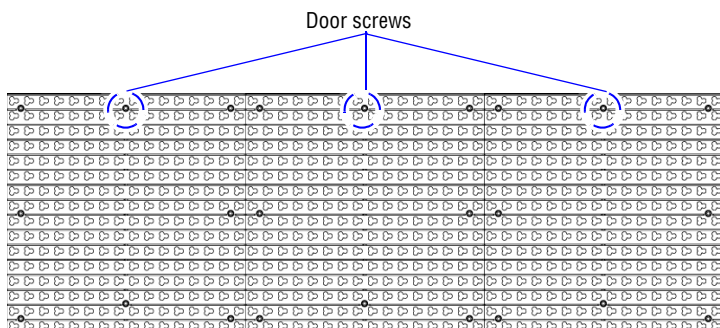
Mounting Requirements

DO NOT allow water from the above ID Sign, fascia trim, or flashing to drip directly onto the seams of the sign door.

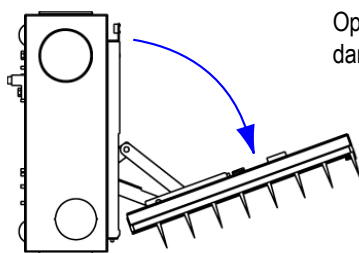
DO NOT allow water to pool / gather underneath or on top of the sign. Always create a pathway for water to escape.



- Because EzView X displays cool by convection, mounting to ensure proper air flow around the sign case is critical.
- The display should be mounted so that hot air rising from the sign can escape through the space at the top. Side vents alone are not sufficient.
- Avoid mounting the display in “dead spots” with poor air circulation.
- Do not allow brackets or support structures to obstruct air flow.



There is one hex head door screw in each display board. Use a 5/32-inch hex tool to loosen, turning the screws counterclockwise until they release from the case.

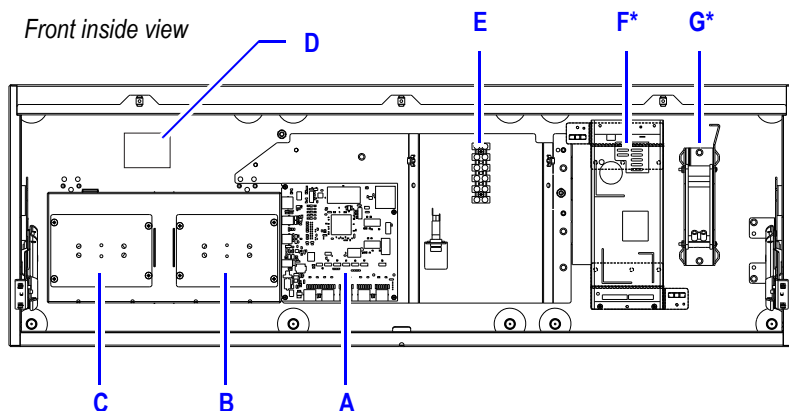


Open the door slowly to prevent damage to internal components.

When closing the case, do not overtighten the screws. Only secure them until they are snug.

5 Location of Parts

Front inside view

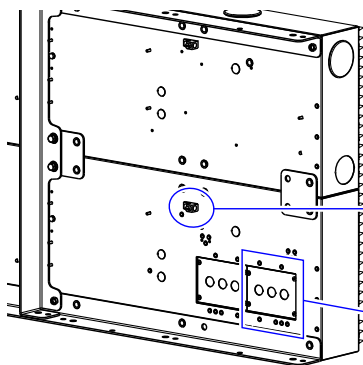


* All sign cases contain a power supply and fan.

Item	Name	Description
A	CONTROLLER	Internal computer used to control the sign. In master / slave configurations, the slave sign has a LVDS repeater in this location instead of an internal computer.
B	COMMUNICATION JUNCTION BOX	Used to bring in sign communication cables such as Ethernet, temperature / light sensor (optional), and master / slave (optional) cabling. The junction box has two cover plates, allowing access to the communication connections from the inside or the outside of the sign.
C	POWER JUNCTION BOX	The sign's power entry terminal is located inside this junction box. The junction box has two cover plates, allowing access to the sign's main power terminal from the inside or the outside of the sign.
D	PoE INJECTOR LOCATION INSIDE OF SIGN	Only applicable with the WiFi connectivity option. The PoE (Power over Ethernet) device is supplied with the WiFi/Fiber Connectivity options and this location inside the sign is reserved for the PoE devices installation.
E	POWER DISTRIBUTION TERMINAL	Used to route power from row to row and from power supply to power supply in each row. Only present in the left-most column of the sign when facing the front of the sign.
F	POWER SUPPLY	Provides power to all the components in a sign case including display boards. Present in all sign cases.
G	FAN	Internal mixing fans are used to circulate air inside the sign. Present in all sign cases.

6

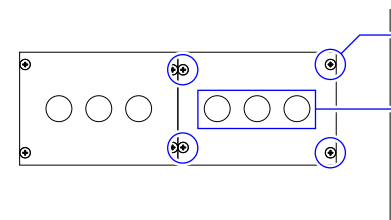
AC Connection



Route the AC power conduit to the back of the sign (bottom right-most case when facing the back of the sign).

Ground lug (connect to an earth-ground rod)

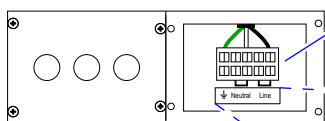
Power junction box.



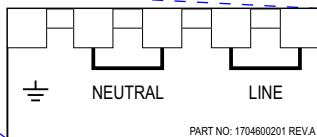
A. Remove four screws and the cover plate.

B. Remove one of the 7/8-inch knock-outs for the AC power conduit.

C. Strip 3/8-inch of insulation off of the incoming AC power wiring.

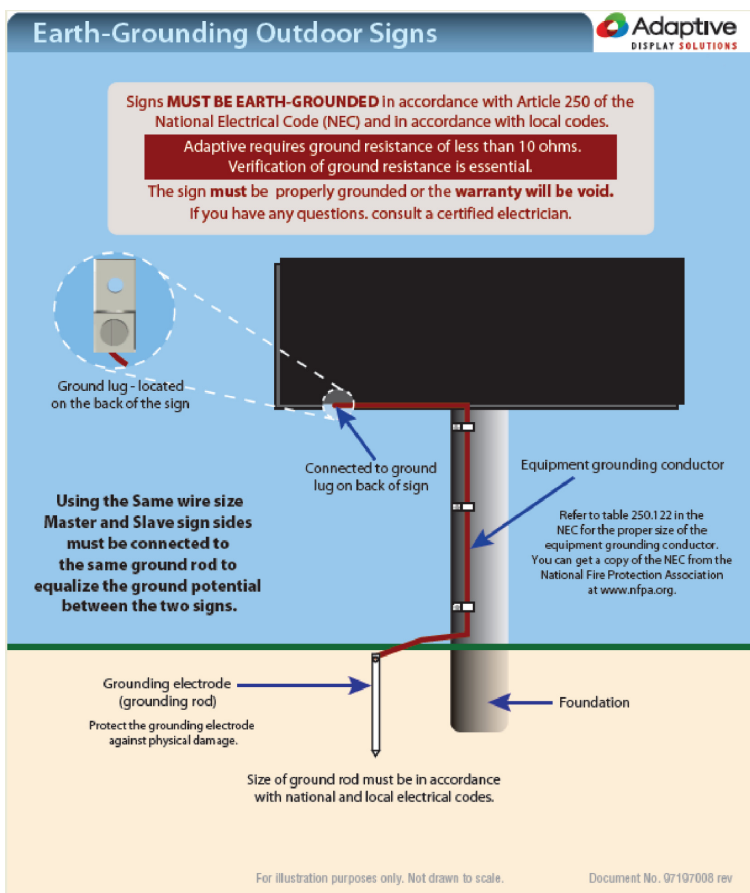


D. Connect AC wiring according to the wiring label (press the button on top of the terminal block and fully insert the power wire).



E. Secure the cover plate back onto the sign, be careful not to pinch any of the power wires.

7 Grounding



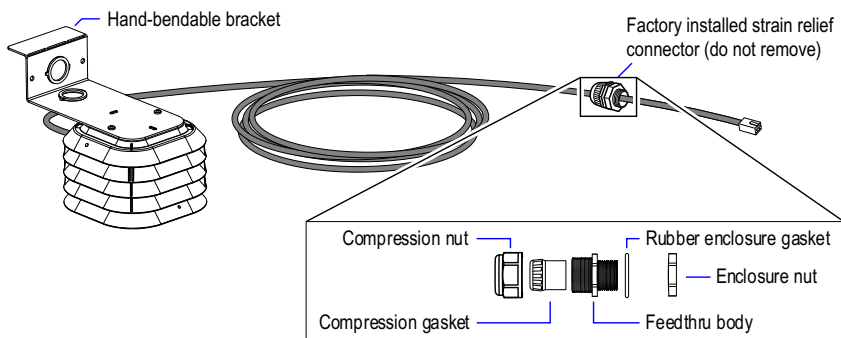
- Back-to-back signs must both be grounded to a common point.
- It is critical for the continued trouble-free operation of the sign that the ground rod be installed according to NEC 250-1. See “Earth Grounding Procedures” (PN 97197008) for detailed instructions.



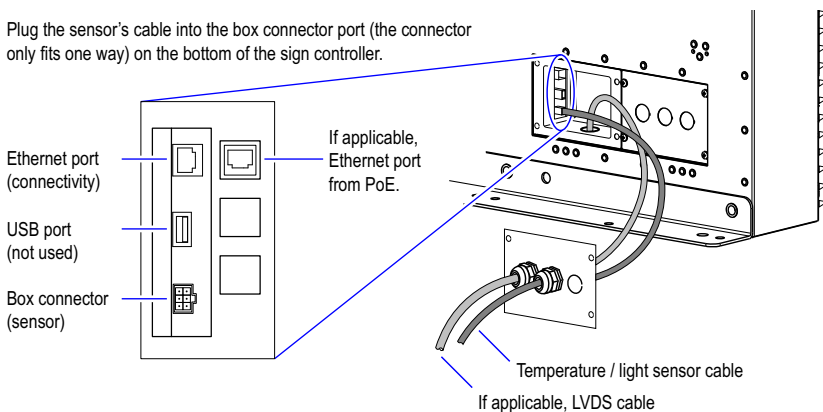
A photograph of grounding must be included with the Warranty Activation Checklist (WAC) (PN 1109610119).

8

Temperature Probe



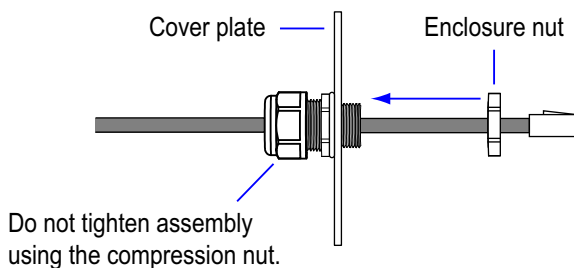
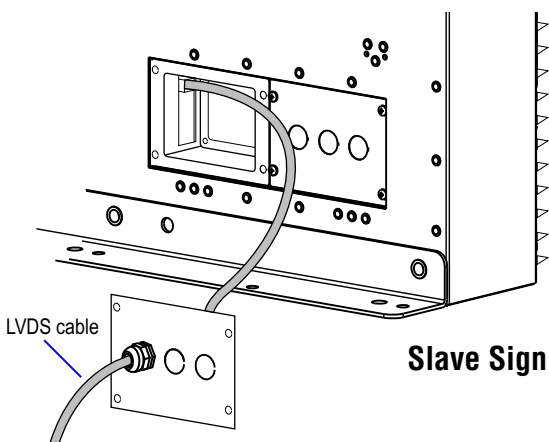
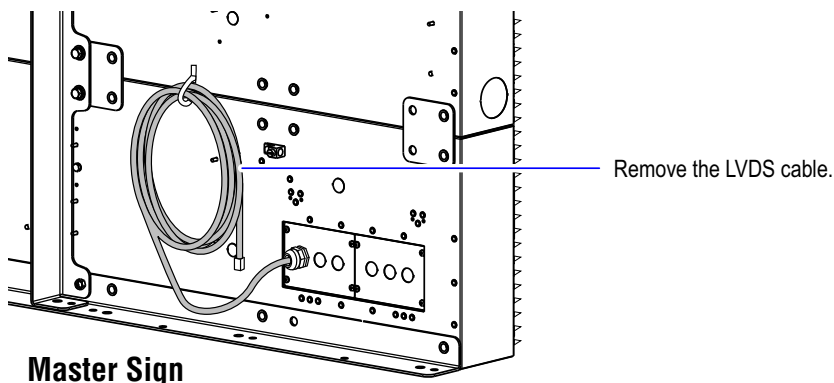
Plug the sensor's cable into the box connector port (the connector only fits one way) on the bottom of the sign controller.



9

Master / Slave Connection

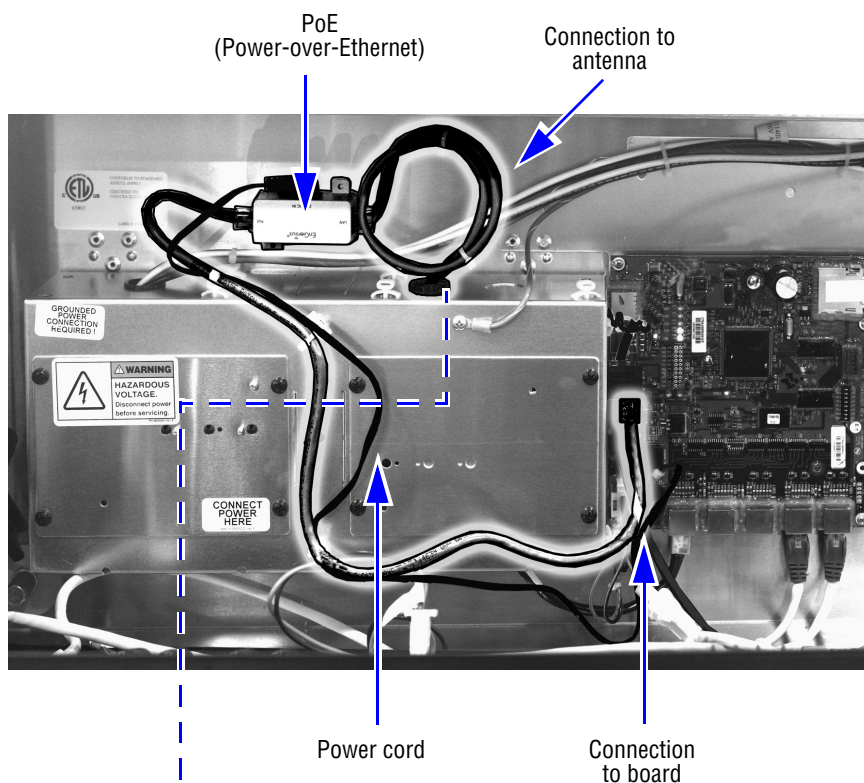
Master / Slave Sign Inter-Connection



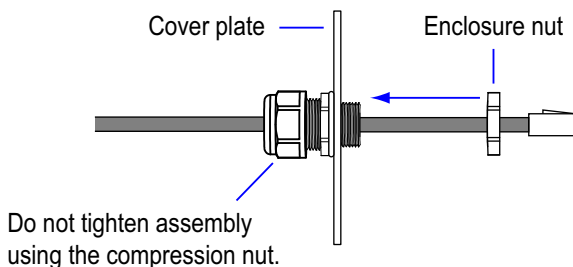
The cable bundle is attached to the Master Sign. Connect the loose end to the Slave LVDS repeater board. Use the cable pass-through connection to seal the enclosure.

10 WiFi Connection to Sign

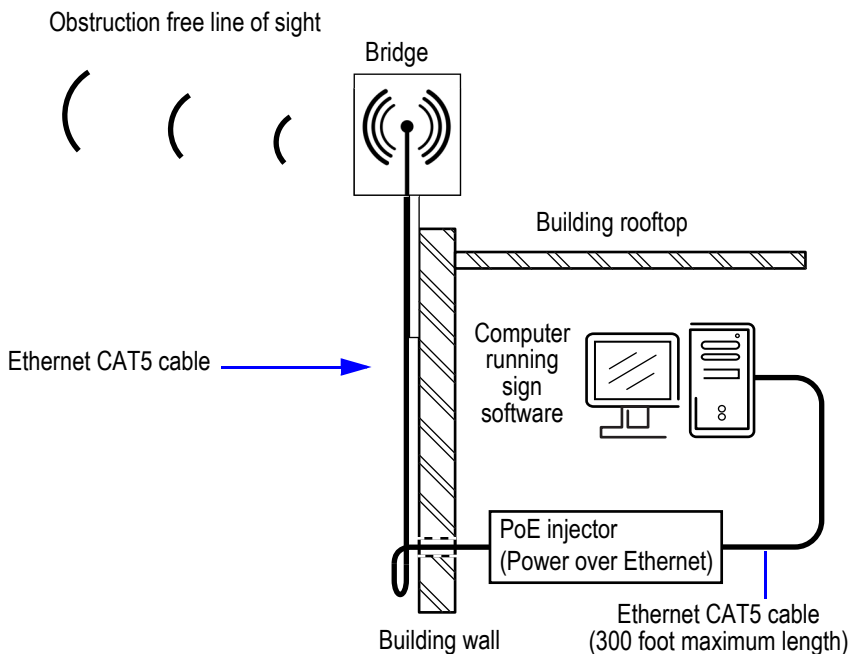
View after Dealer Installation



Cable pass-through assembly

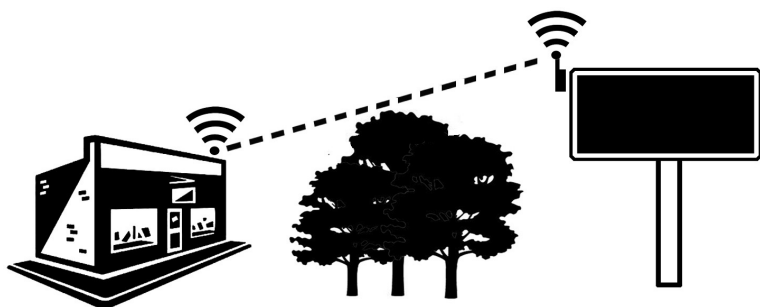
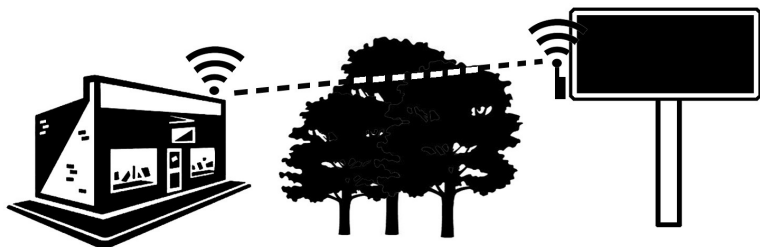


11 WiFi Communication to PC



- For more information on the installation of the radios, please refer to the full EzView X Sign Installation Manual for further detail on wireless setup.
- Radio operates at 2.4 GHz or 5GHz depending on the model purchased from Adaptive.

12 Line of Sight



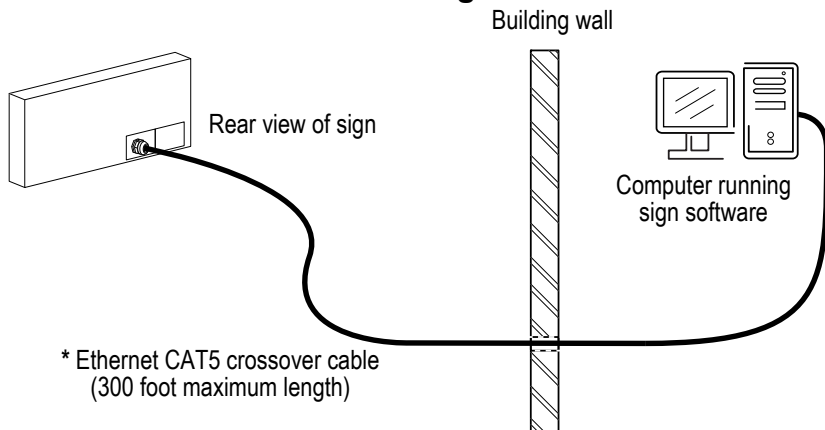
- Avoid installing antennas in metal window frames. This may result in unexpected interference that can cause transient interruptions in operation of the sign.
- Radios operate on public airways; therefore, uninterrupted communications cannot be guaranteed.
- Line-of-sight and surrounding noise can also impact signal and communication reliability.



A photograph of the radio installation is required for the Warranty Activation Checklist (WAC).

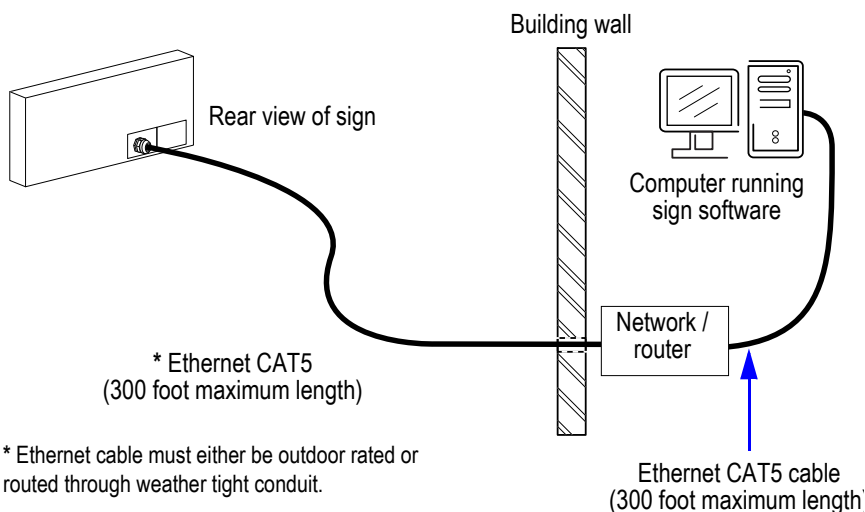
13 Ethernet Connection to Sign

Direct connection between sign and PC



* Ethernet crossover cable must either be outdoor rated or routed through weather tight conduit.

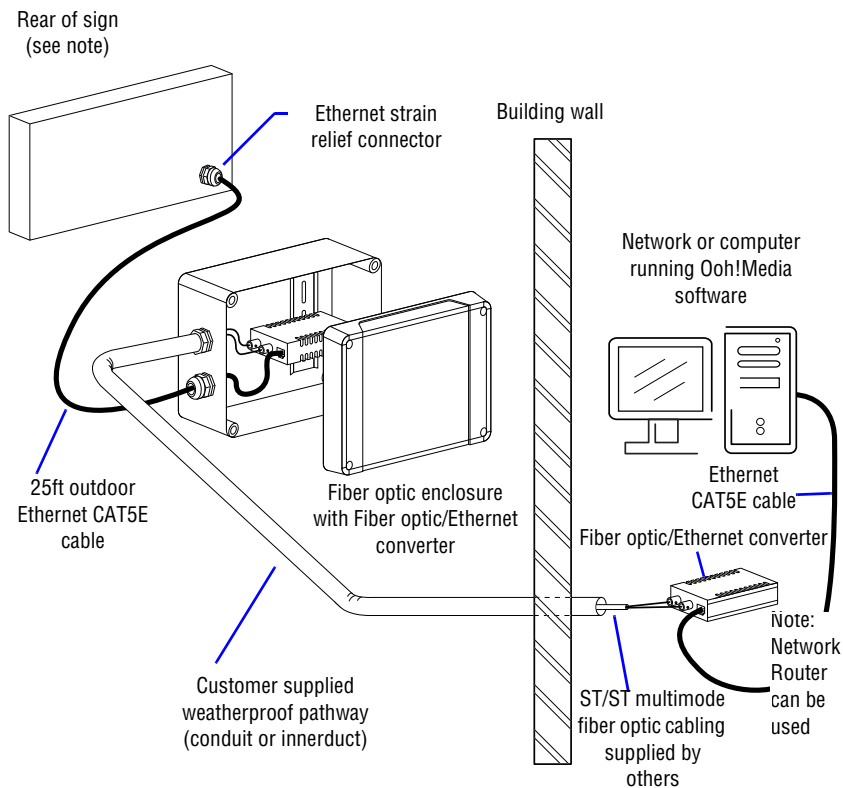
Connection via network



* Ethernet cable must either be outdoor rated or routed through weather tight conduit.

- Direct connection between the network and the sign is the most reliable way to connect to the sign.
- Maximum length of Ethernet CAT5 crossover cable is 300 feet.
- Ethernet crossover cable must be either outdoor rated or routed through weather-tight conduit.

14 Fiber Optic Connection to Sign



15 Spare Parts List

Part Number	Description
1704500305LFSP	SP KIT, DRIVER ASY, 16X16, 23MM RED, V2
1704500306LFSP	SP KIT, DRVR ASY, 16X16, 23MM AMB, VER2
1704500307LFSP	SP KIT, RF, DRVR ASY, 16X16, 23MM RGB, VER2
1701500205LFSP	SP KIT, DRVR ASY, 16X16, 20MM RED, VER2
1701500206LFSP	SP KIT, DRVR ASY, 16X16, 20MM AMB, VER2
1701500207LFSP	SP KIT, DRVR ASY, 16X16, 20MM RGB, VER2
40756303ASP	Power Supply (modular case only)
	(SP KIT, SWPS, 90-264VAC, 47-63HZ, 24V, 350W)
1704100903SP	Controller (SP, SIGN CONTROLLER PCB ASY, ARM9)
1701100502LFSP	Slave Repeater (SP, PCB ASY, LVDS REPEATER)
	(SP, TEMPERATURE PROBE/LIGHT SENSOR)
1704250201SP	Light/Temp Sensor (New Ezview)

When ordering, provide sign serial number to ensure correct configuration.

Full Technical Information

For more detailed information, see the EzView X Installation Manual (PN 1709610101).

16 Warranty Activation Checklist

The Warranty Activation Checklist (WAC) can be downloaded from the Dealer section of the Adaptive Micro Systems website at www.adaptivedisplays.com.

The Warranty Activation Checklist is used to ensure that the EzView X display has been installed correctly.

This form must be sent to and accepted by Adaptive Micro Systems for the sign warranty to be activated.

The following must be included:

- Completed Warranty Activation Checklist
- Photographs of the installation depicting the following:
 - Venting
 - Grounding
 - Radio line of sight
 - The display powered and running

Submit the completed checklist and photographs to:

CustomerCare@AdaptiveDisplays.com

The image shows a sample of the Warranty Activation Checklist form. It includes sections for 'Product Information', 'Installation Site Information', and 'Dealer and Sign Owner Information'. The 'Product Information' section has a table for recording details for up to four displays. The 'Installation Site Information' section includes fields for contact name, phone, email, address, city, state, and zip. The 'Dealer and Sign Owner Information' section includes fields for dealer name, dealer P.O. box, dealer sign ID, and dealer sign size.

Product Name	Product Model	Product Color	Product Size

©Copyright 2012 Adaptive Micro Systems LLC. All rights reserved.

Adaptive is a registered trademark of Adaptive Micro Systems.

EzView is a registered trademark of Adaptive Micro Systems.

All other brand and product names are trademarks or registered trademarks of their respective companies.

THIS PAGE INTENTIONALLY BLANK

THIS PAGE INTENTIONALLY BLANK