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Simply Brilliant!

EMC Install Guide

Please follow the steps in this guide to ensure proper installation of your electronic messaging center. For any questions, please dial our office (812)-473-2000, or chat with us on our website at www.HCILEDSigns.com



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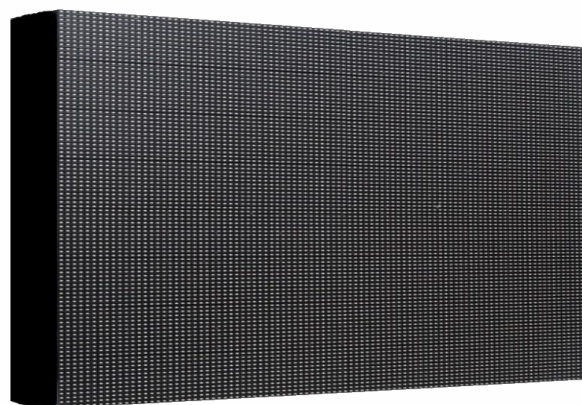
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Upon delivery of the sign inspect it to make sure that there is no visible damage. If there is damage to the package take pictures, and refuse the shipment. Report and send pictures of any damage to Husk Companies, INC.

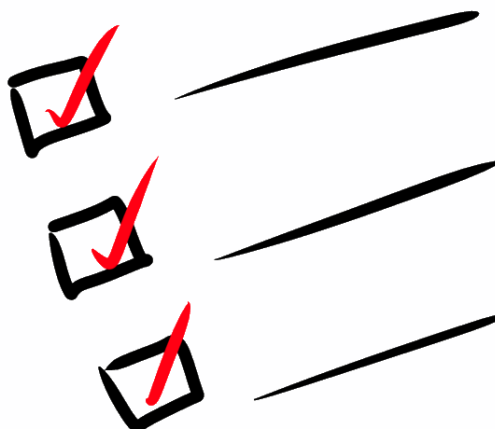


Unpack the sign to make sure that all components are there by checking the packing list. If any components are missing, please take pictures and report to Husk Companies, INC.

Set the signs up in the shop to make sure all components are functioning properly prior to installing.



Page 1	Introduction	Components	Present	Quantity
Page 2	Delivery	» LED sign cabinets	<input type="checkbox"/>	_____
Page 3	Packing List	» Cradlepoint Cellular	<input type="checkbox"/>	_____
		» Engenius antennas	<input type="checkbox"/>	_____
Page 4	Connection	» Wireless router	<input type="checkbox"/>	_____
Page 5	Antennas	» Laptop	<input type="checkbox"/>	_____
Page 6	Cellular	» Module tool	<input type="checkbox"/>	_____
		» Cat 5 Cables	<input type="checkbox"/>	_____
Page 7	Brightness	» Spare LED panels	<input type="checkbox"/>	_____
Page 8	Installation	» Spare power supplies	<input type="checkbox"/>	_____
		» Power Wires	<input type="checkbox"/>	_____
Page 9	Installation	» Brightness Sensor	<input type="checkbox"/>	_____
Page 10	Warranty	» Training Manual	<input type="checkbox"/>	_____
Page 11	Grounding	» Waterproof Covers	<input type="checkbox"/>	_____



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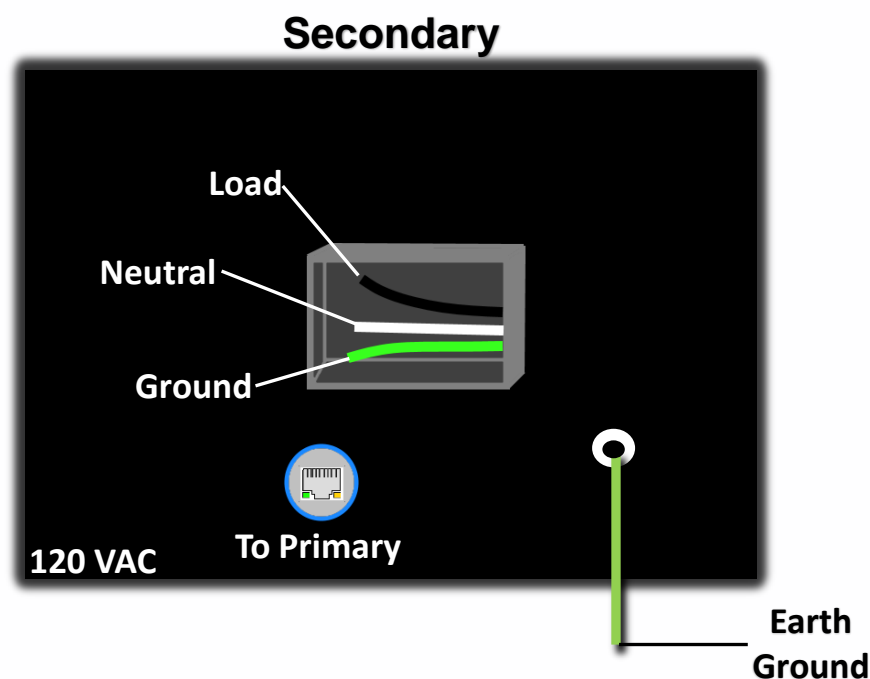
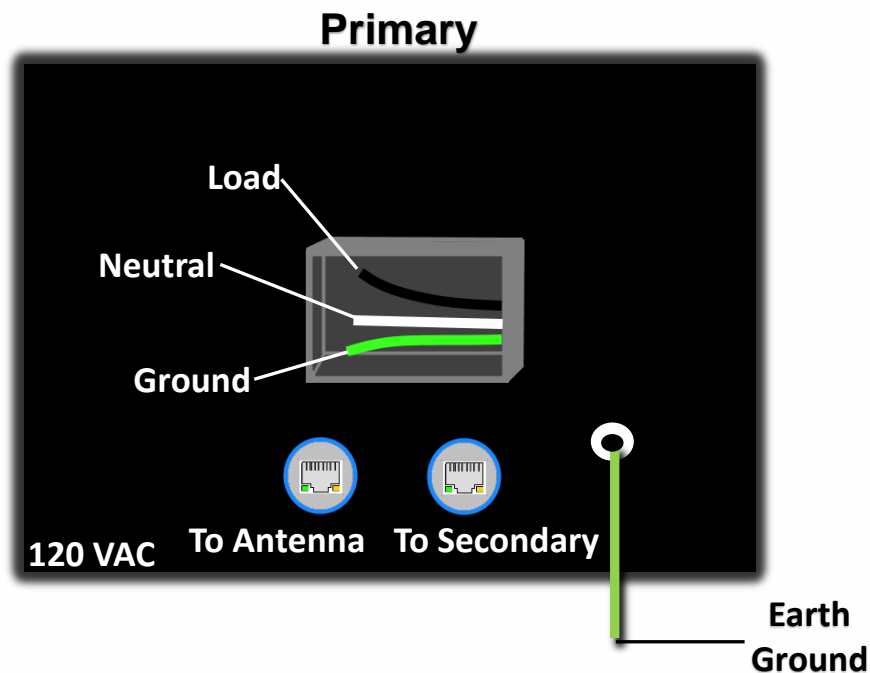
Page 7 Brightness

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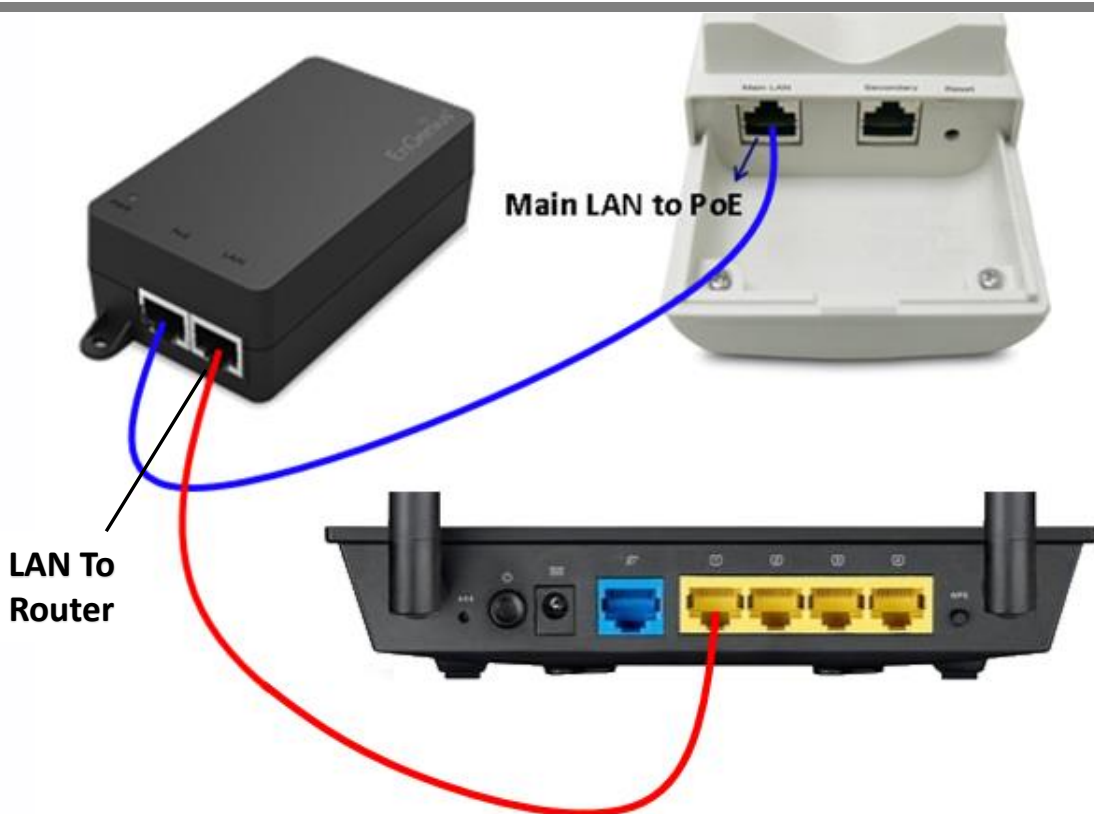
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Unpack the antenna and router to set them up in the building as shown in the diagram below. Mount the antenna facing the access point on the sign to ensure proper communication. Use existing router if possible.



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Unpack the Cradlepoint and omni directional antenna to set them up in the EMC. Run a Cat5 cable from the Cradlepoint to the MiniX. Mount the omni directional antenna on the exterior, and screw onto the Main port of the Cradlepoint.



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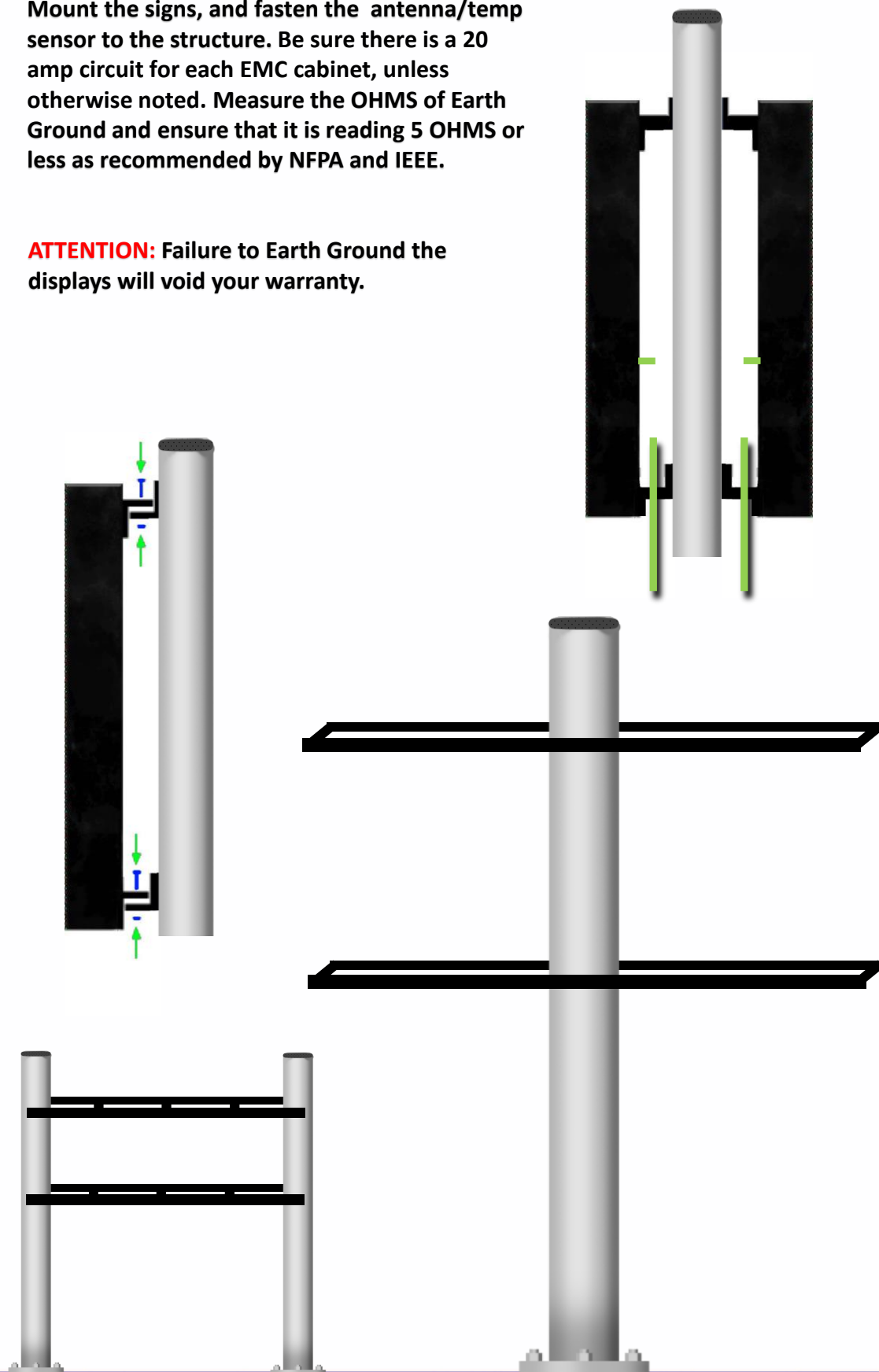
Unpack the brightness sensor and mount on the exterior where it can read the environment brightness. Plug the sensor into the vanilla colored port at the top right corner on the MSD300 inside the EMC.



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Mount the signs, and fasten the antenna/temp sensor to the structure. Be sure there is a 20 amp circuit for each EMC cabinet, unless otherwise noted. Measure the OHMS of Earth Ground and ensure that it is reading 5 OHMS or less as recommended by NFPA and IEEE.

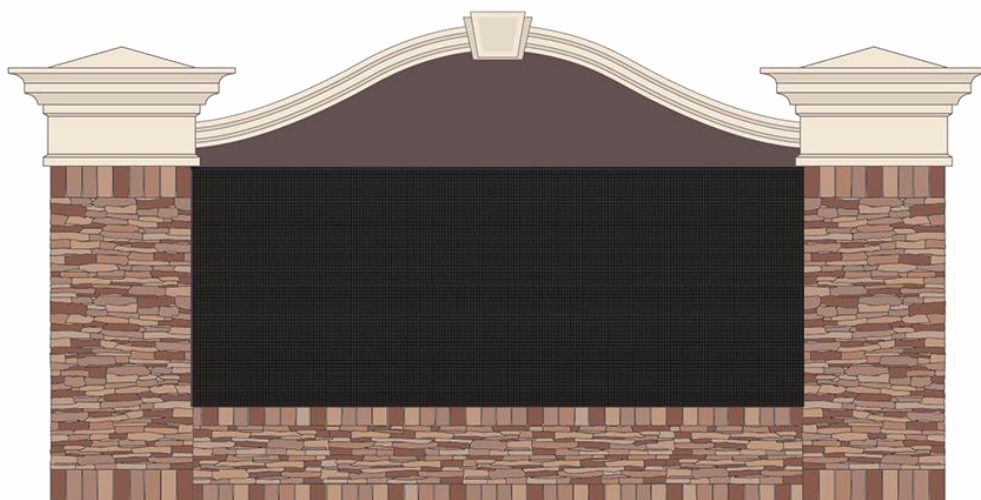
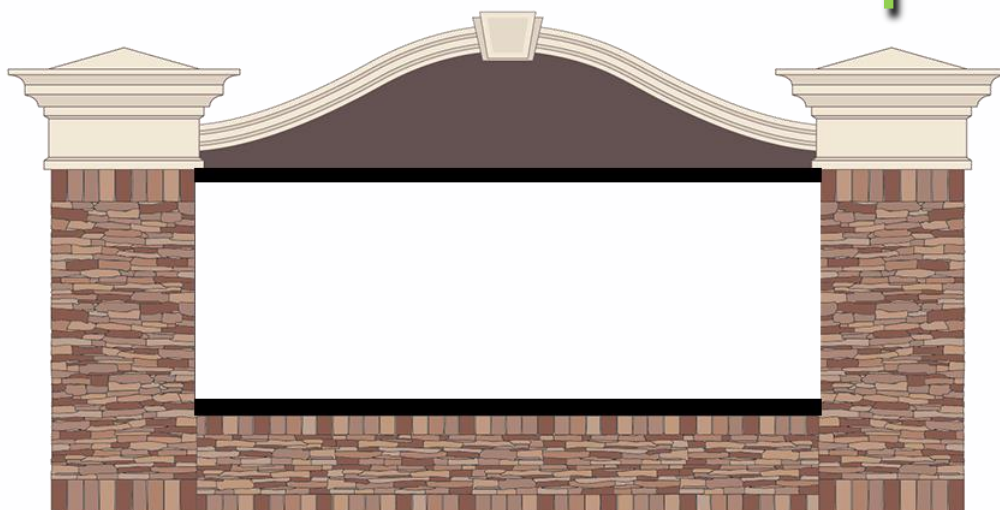
ATTENTION: Failure to Earth Ground the displays will void your warranty.



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Mount the signs, and fasten the antenna/light sensor to the structure. Be sure there is a 20 amp circuit for each EMC cabinet, unless otherwise noted. Welding on the cabinets can damage the internal components of the digital LED sign.

ATTENTION: Do not weld directly onto the signs as this will void your warranty.



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All of our EMC's come with a 5 year parts and labor warranty. In order to activate the warranty of the EMC take the pictures listed below of the installation, and submit them to HCI-Warranty@HCI-LED.com

You will receive a reply approving installation, and activating the 5 year parts and labor warranty. Failure to comply with the requests can limit the warranty until installation can be approved.

- Breakers
- Earth grounds
- Junction boxes
- Signs mounted to structure
- Signs displaying content



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Poor grounding not only contributes to unnecessary downtime, but a lack of good grounding is also dangerous and increases the risk of equipment failure. Without an effective grounding system, we could be exposed to the risk of electric shock, not to mention instrumentation errors, harmonic distortion issues, power factor problems and a host of possible intermittent dilemmas. If fault currents have no path to the ground through a properly designed and maintained grounding system, they will find unintended paths that could include people.

The following organizations have recommendations and/or standards for grounding to ensure safety:

- OSHA (Occupational Safety Health Administration)
- NFPA (National Fire Protection Association)
- ANSI/ISA (American National Standards Institute and Instrument Society of America)
- TIA (Telecommunications Industry Association)
- IEC (International Electrotechnical Commission)
- CENELEC (European Committee for Electrotechnical Standardization)
- IEEE (Institute of Electrical and Electronics Engineers)

However, good grounding isn't only for safety; it is also used to prevent damage to industrial plants and equipment. A good grounding system will improve the reliability of equipment and reduce the likelihood of damage due to lightning or fault currents. Billions of dollars are lost each year in the workplace due to electrical fires. This does not account for related litigation costs and loss of personal and corporate productivity.