



## Introduction

This document explains how to install a MaxStream wireless XTend transceiver into the following AlphaEclipse StreetSmart signs:

- For 17X see “AlphaEclipse StreetSmart 17X sign upgrade” on page 4.
- For 35M and 35V see “AlphaEclipse StreetSmart 35M and 35V sign upgrade” on page 8.
- For 35X see “AlphaEclipse StreetSmart 35X sign upgrade” on page 11.

## Safety



## Revision history

Part #	Date	Notes
1179600101	January 27, 2006	First release.

## Related documentation

Part #	Title
1179600101	AlphaEclipse StreetSmart Installation Manual

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Due to continuing product innovation, specifications in this manual are subject to change without notice.

## Required material






Photo	Part Number	Description
	10889506	MaxStream wireless Xtend transceiver
	1179122501	Power cable for 35M and 35V
	1179122301	Power cable for 17X
	1179122401	Power cable for 35X
	65060004 65060005	Velcro tape
	63100008	Tie wraps
	63101057	Tie wrap holders
	11609009	20' coaxial cable

Photo	Part Number	Description
	11609008	2' coaxial cable
	10889204	Communication cable
	10889040	USB cable
	68116117	Mounting hardware

## AlphaEclipse StreetSmart 17X sign upgrade

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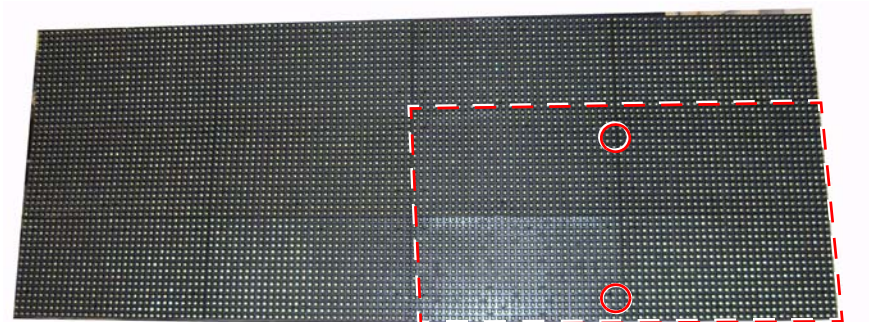
1. Remove power from the sign.



2. Loosen the two hex screws (circled below) on the controller section of the sign. Then pull the door towards you.



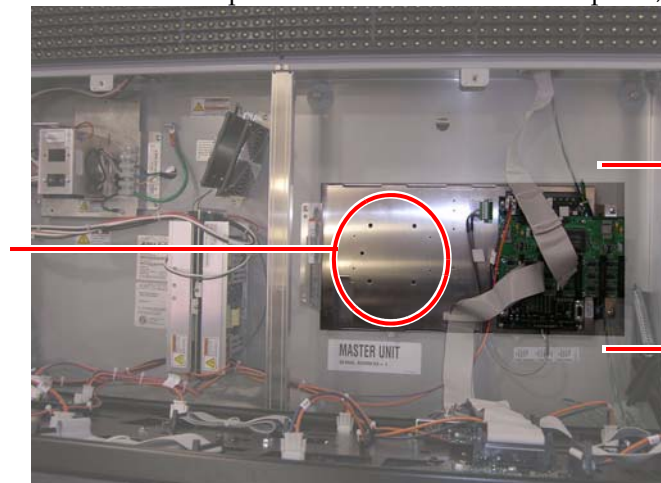
Use a 5/32-inch hex screw tool (pn 6811-7076) to loosen the hex screws.



3. Locate controller panel.

**NOTE:** If there is another communication option located on the controller panel, remove that first.

Communication option location

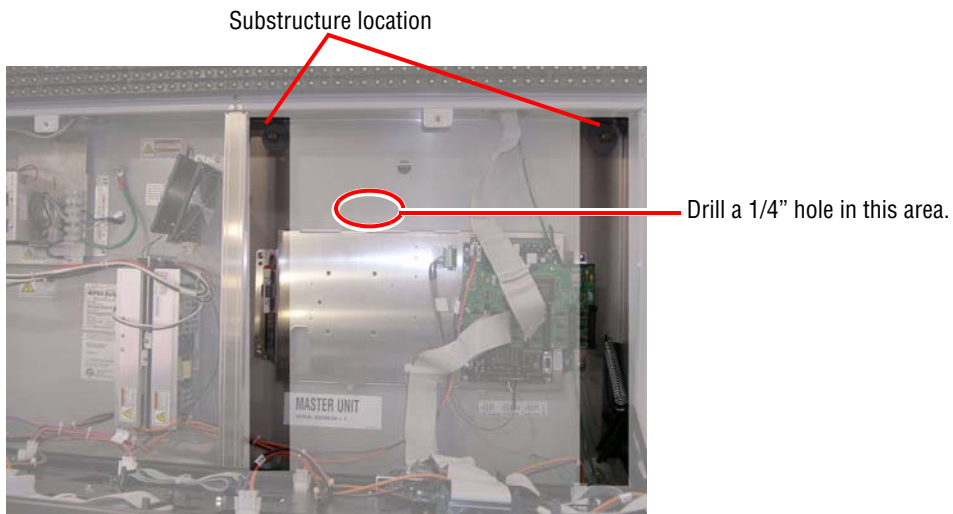


Controller panel

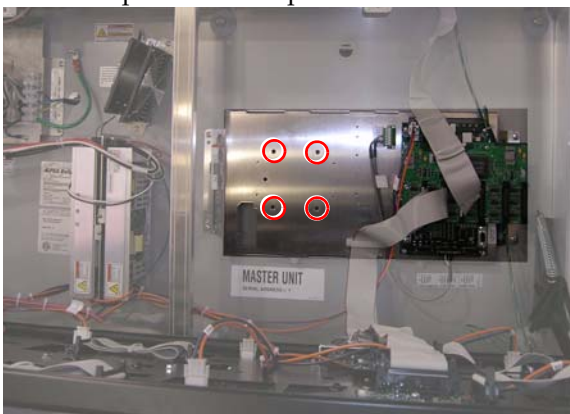
4. Drill a 1/4" hole (circled below) above the controller panel.

**NOTE:** Do not drill into the substructure (indicated below).

**NOTE:** When you have finished drilling, remove all metal shavings from the case with a vacuum. Metal shavings can damage electrical circuitry in the sign. Protect all circuitry before drilling.



5. Insert the plastic tie wrap holders into the holes (circled below) on the controller panel.



Location of tie wrap holders on a sign with a 6-channel daughter card.



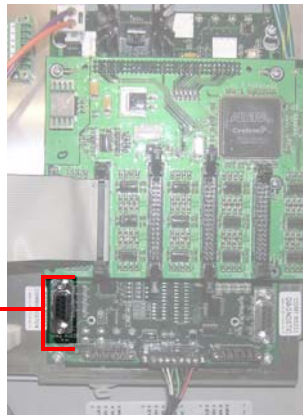
Location of tie wrap holders on a sign with a 12-channel daughter card.

6. Attach the velcro tape to the back of the MaxStream wireless transceiver. Remove the protective tape over the velcro.
7. Place the MaxStream wireless transceiver between the tie wrap holders on the controller panel.
8. Attach the tie wraps to the tie wrap holders. Then secure the MaxStream wireless transceiver to the controller plate using the tie wraps.
9. Insert the communication cables into the MaxStream wireless transceiver.



10. Remove the nut and washer from the 2' coaxial cable. Insert the 2' coaxial cable into the hole you drilled in step 4. Attach the nut and washer to the end of the coaxial cable that is sticking through the back of the sign. Tighten against the back of the sign.
11. Attach the 20' coaxial cable to the 2' coaxial cable.
12. Attach the mounting hardware.  
**NOTE:** Do not attach the mounting hardware directly on the sign.
13. Insert antenna to the top of the mounting hardware. Then attach the 20' coaxial cable to the antenna.
14. Insert the other end of the serial plug on the controller (circled below).

Plug the serial  
cable in here.

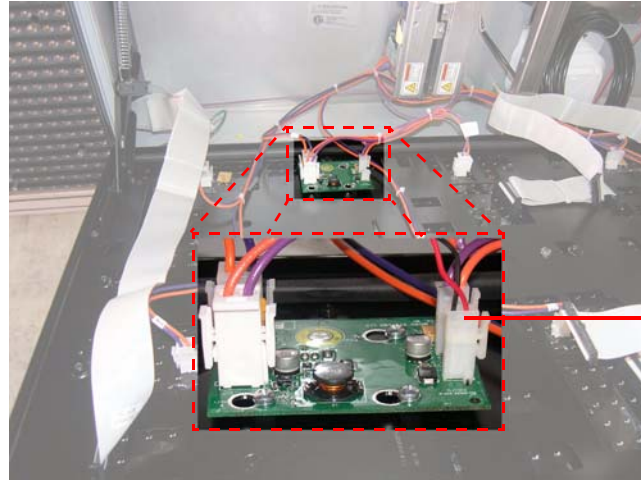


15. Insert the power plug into the MaxStream wireless transceiver.

Power cable  
(pn 1179122301)



16. Insert the other end of the power cable into the boost regulator (shown below).



Plug power cable into the boost regulator on the sign door.

17. Close the sign door.
18. Reapply power to the sign.

## AlphaEclipse StreetSmart 35M and 35V sign upgrade

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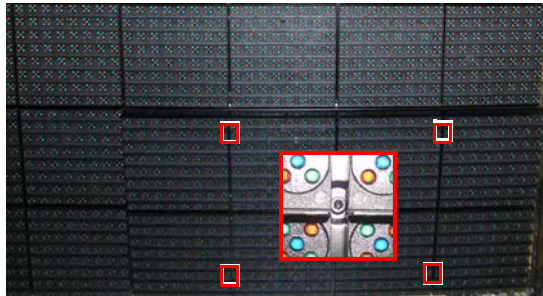
1. Remove power from the sign.



2. Loosen the four hex screws (shown below) on the controller section of the sign. Then pull the door towards you.

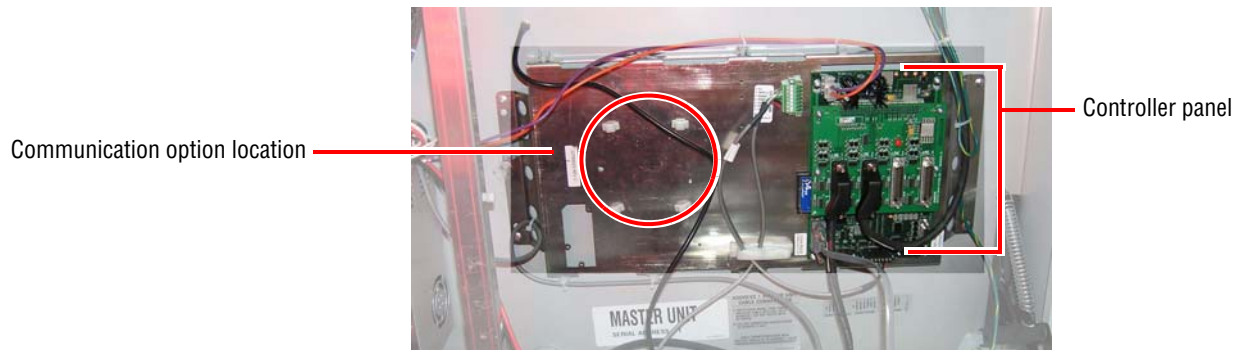


Use a 5/32-inch hex screw tool (pn 6811-7076) to loosen the hex screws.



3. Locate controller panel.

**NOTE:** If there is another communication option located on the controller panel, you must remove that first.

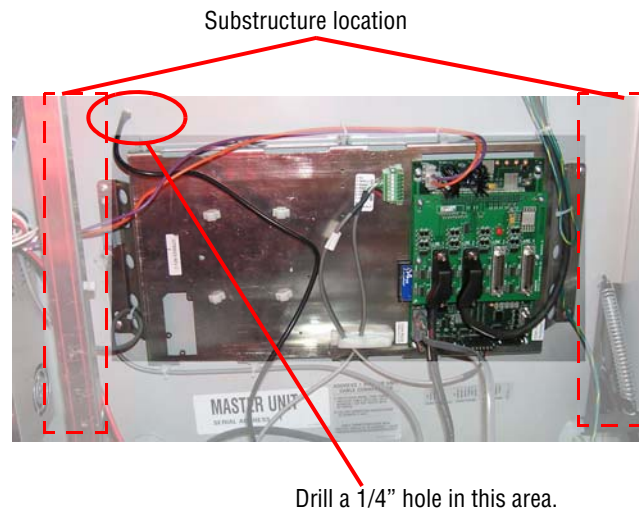




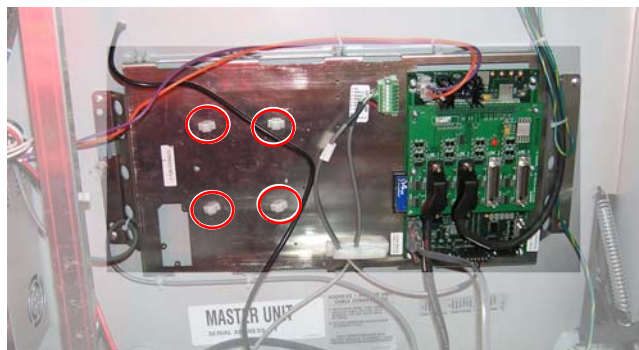
4. Drill a 1/4" hole (circled below) above the controller panel.

**NOTE:** Do not drill into the substructure (indicated below).

**NOTE:** When you have finished drilling, remove all metal shavings from the case with a vacuum. Metal shavings can damage electrical circuitry in the sign. Protect all circuitry before drilling.



5. Insert the plastic tie wrap holders into the holes (circled below) on the controller panel.

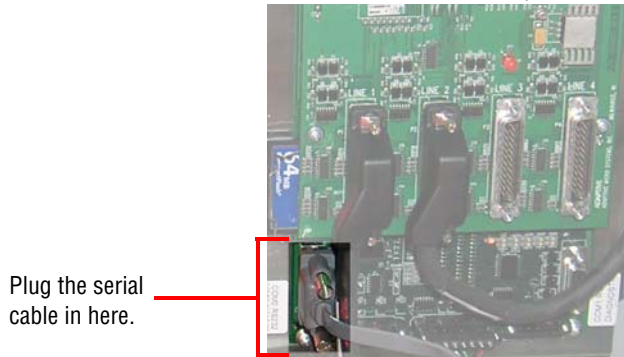


6. Attach the velcro tape to the back of the MaxStream wireless transceiver. Remove the protective tape over the velcro.
7. Place the MaxStream wireless transceiver between the tie wrap holders on the controller panel.
8. Attach the tie wraps to the tie wrap holders. Then secure the MaxStream wireless transceiver to the controller plate using the tie wraps.

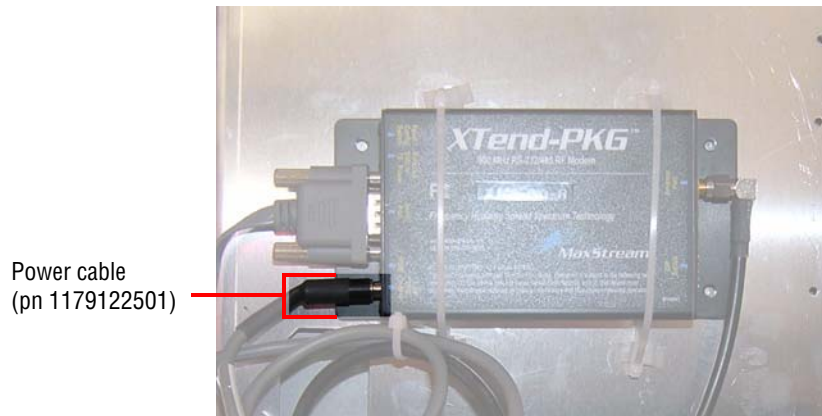
9. wirelessInsert the communication cables into the MaxStream wireless transceiver.



10. Remove the nut and washer from the 2' coaxial cable. Insert the 2' coaxial cable into the hole you drilled in step 4. Attach the nut and washer to the end of the coaxial cable that is sticking through the back of the sign. Tighten against the back of the sign.
11. Attach the 20' coaxial cable to the 2' coaxial cable.
12. Attach the mounting hardware.  
**NOTE:** Do not attach the mounting hardware directly on the sign.
13. Insert antenna to the top of the mounting hardware. Then attach the 20' coaxial cable to the antenna.
14. Insert the other end of the serial cable on the controller (circled below).



15. Insert the power plug into the MaxStream wireless transceiver.



16. Insert the other end of the power cable into the power supply.



17. Close the sign door.
18. Reapply power to the sign.

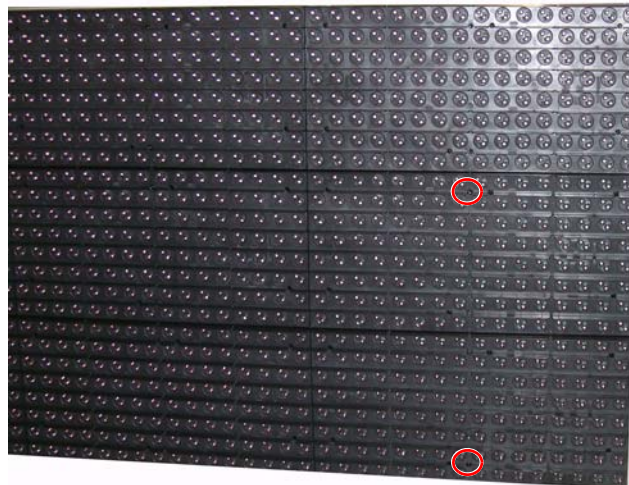
## AlphaEclipse StreetSmart 35X sign upgrade

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1. Remove power from the sign.

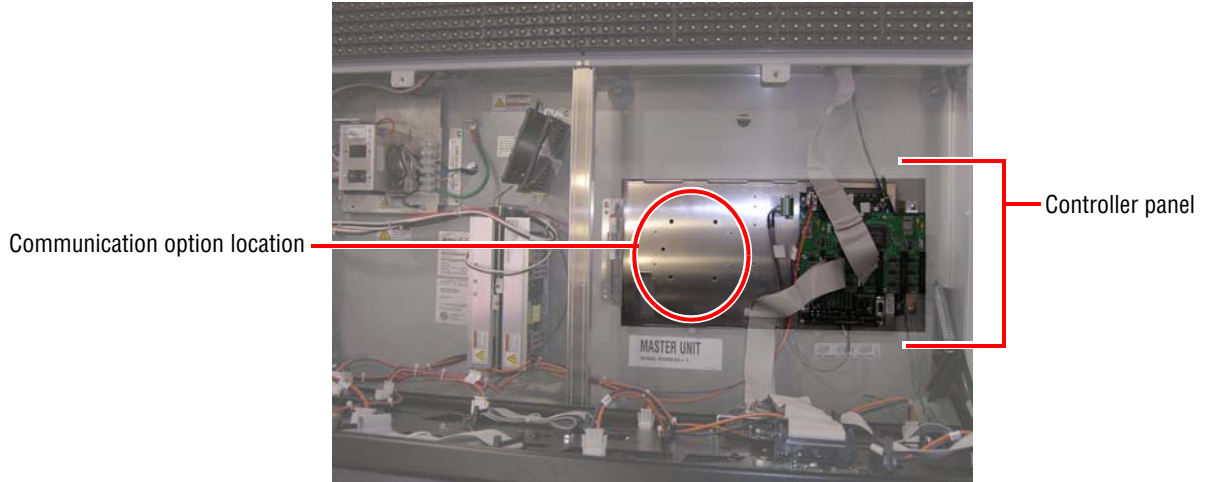


2. Loosen the two hex screws (circled below) on the controller section of the sign. Then pull the door towards you.



3. Locate controller panel.

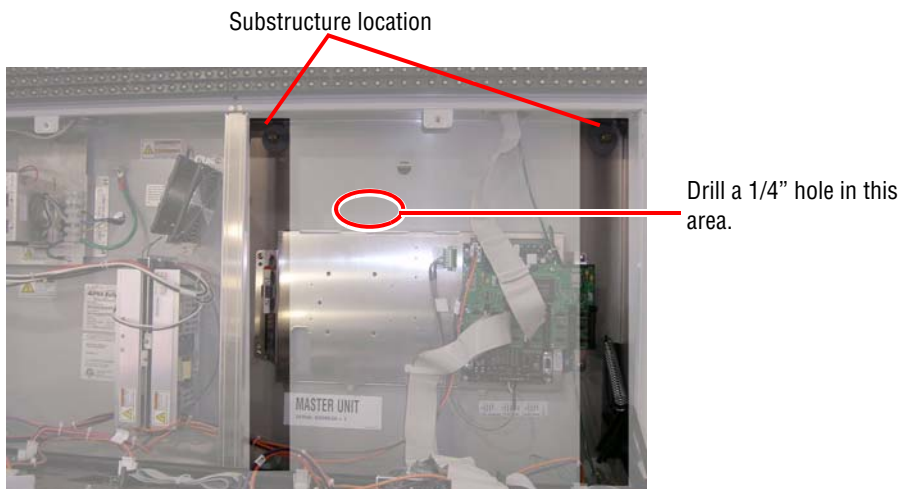
**NOTE:** If there is another communication option located on the controller panel, you must remove that first.



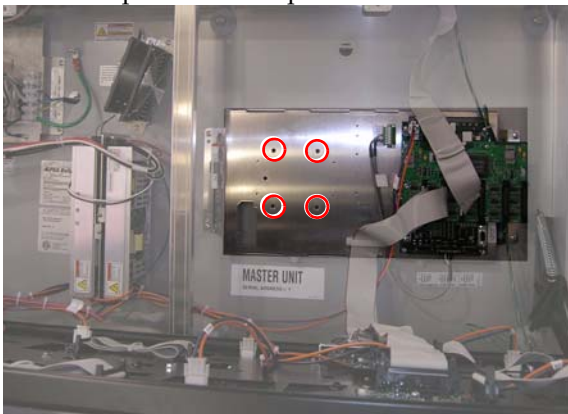
- 4. Drill a 1/4" hole (circled below) above the controller panel.

**NOTE:** Do not drill into the substructure (indicated below).

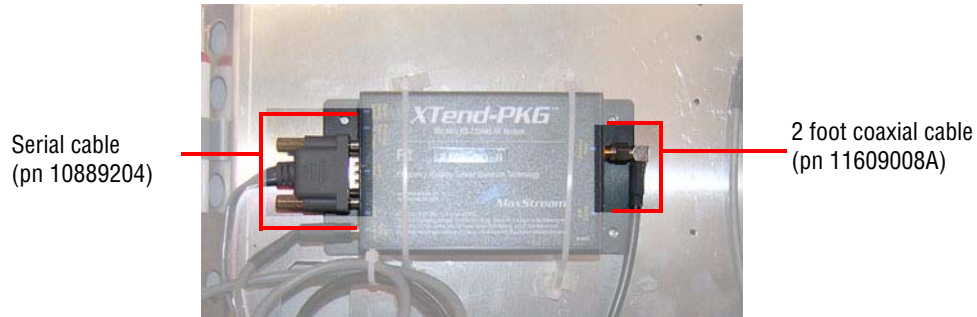
**NOTE:** When you have finished drilling, remove all metal shavings from the case with a vacuum. Metal shavings can damage electrical circuitry in the sign. Protect all circuitry before drilling.



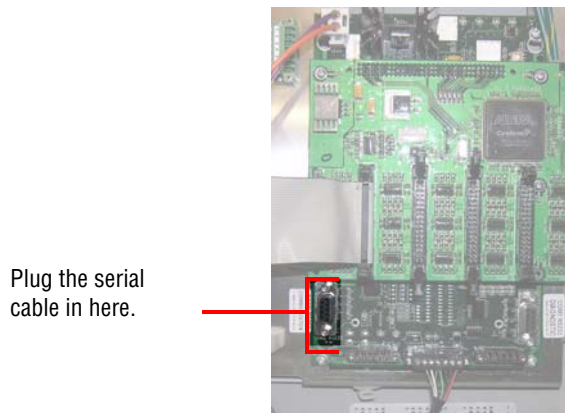
- 5. Insert the plastic tie wrap holders into the holes (circled below) on the controller panel.



6. Attach the velcro tape to the back of the MaxStream wireless transceiver. Remove the protective tape over the velcro.
7. Place the MaxStream wireless transceiver between the tie wrap holders on the controller panel.
8. Attach the tie wraps to the tie wrap holders. Then secure the MaxStream wireless transceiver to the controller plate using the tie wraps.
9. Insert the communication cables into the MaxStream wireless transceiver.



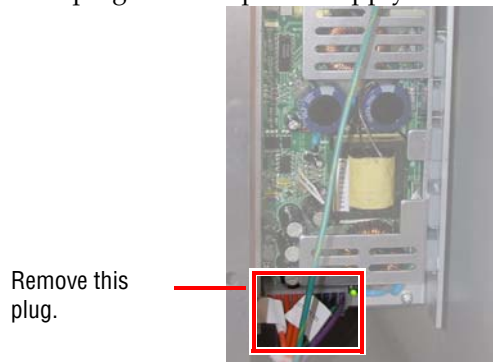
10. Remove the nut and washer from the 2' coaxial cable. Insert the 2' coaxial cable into the hole you drilled in step 4. Attach the nut and washer to the end of the coaxial cable that is sticking through the back of the sign. Tighten against the back of the sign.
11. Attach the 20' coaxial cable to the 2' coaxial cable.
12. Attach the mounting hardware.  
**NOTE:** Do not attach the mounting hardware directly on the sign.
13. Insert antenna to the top of the mounting hardware. Then attach the 20' coaxial cable to the antenna.
14. Insert the other end of the serial plug on the controller (circled below).



- 15. Insert the power plug into the MaxStream wireless transceiver.



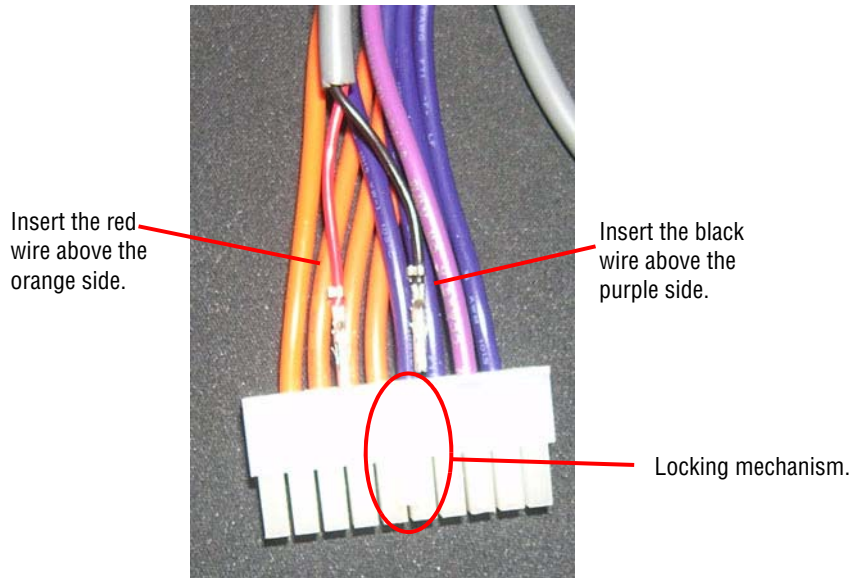
- 16. Remove the plug from the power supply.



17. Insert the cables (shown below).

**NOTE:** Make sure that the crimped side is facing the locking mechanism on the plug.

**NOTE:** After you insert the wires, lightly tug on them to make sure they are properly inserted. If the cables come out, you inserted them incorrectly.



18. Insert the plug back into the power supply.
19. Close the sign door.
20. Reapply power to the sign.

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