

AlphaEclipse StreetSmart MULTIPLE MASTER Sign Connection

<http://www.adaptivedisplays.com/support/eclipse>

This QuickStart gives a brief overview of sign installation.
For complete instructions, see the “AlphaEclipse StreetSmart Sign Installation Manual” (pn 1179600101).

1 Identify the MASTER sign and each SECONDARY MASTER sign. Locate the label on the back of each sign:

Up to 3 SECONDARY MASTER signs



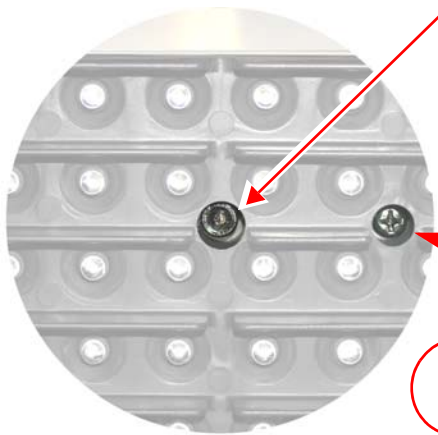
Each sign (except for the last sign) will have a wiring kit in the Control Cube.

2 Starting with the sign with SERIAL ADDRESS = 1, locate and open the Control Cube’s door:



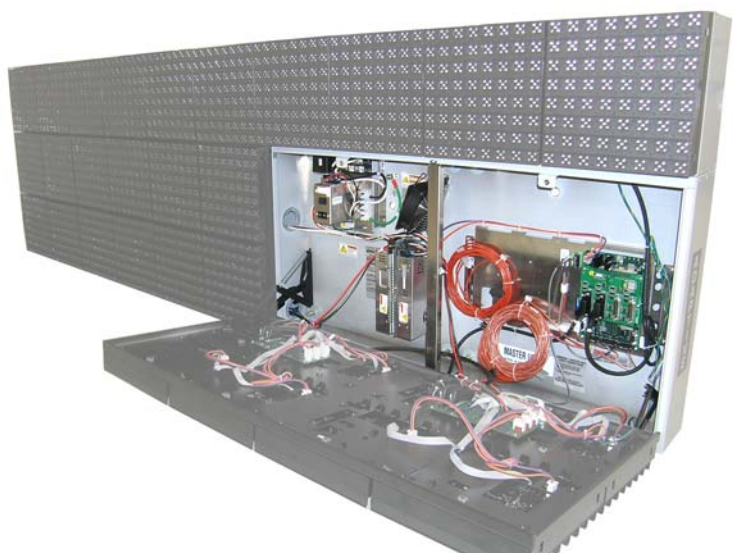
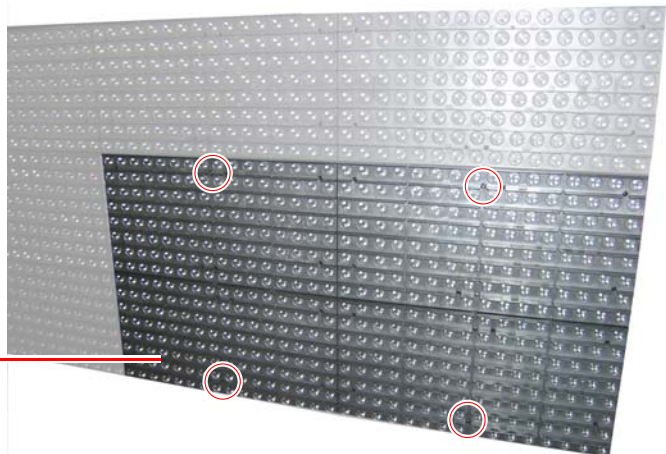
Use a 5/32-inch hex tool to open each Control Cube door locks (circled).

There are 4 to 6 door locks on a sign door.
Each door lock is hexagon shaped:



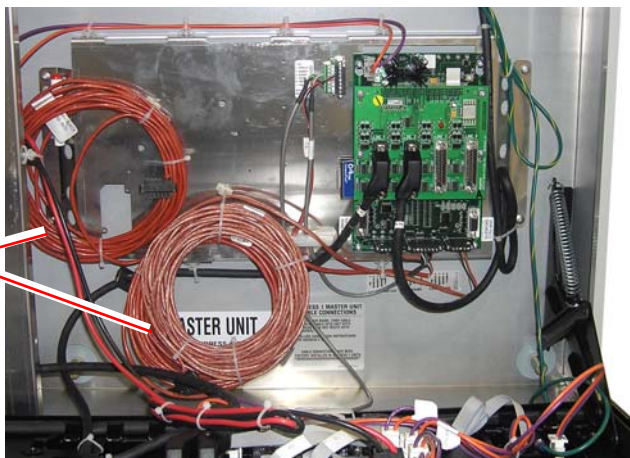
The Control Cube is in the bottom row on the far right side of a sign.

Do NOT remove any of the Phillips head screws.
These screws hold the LED boards to the sign door.

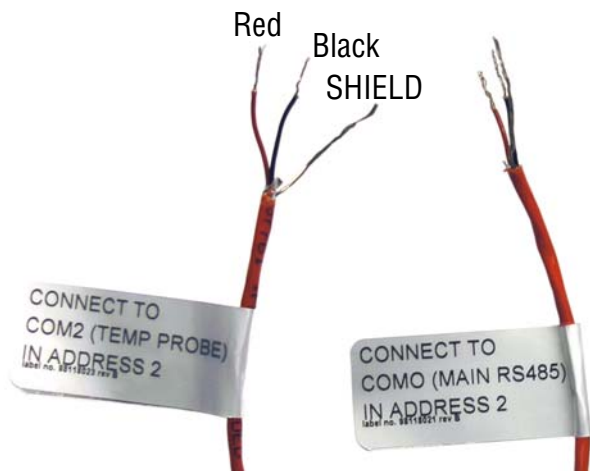


3 Remove the communication cable from the Control Cube:

Communication cable

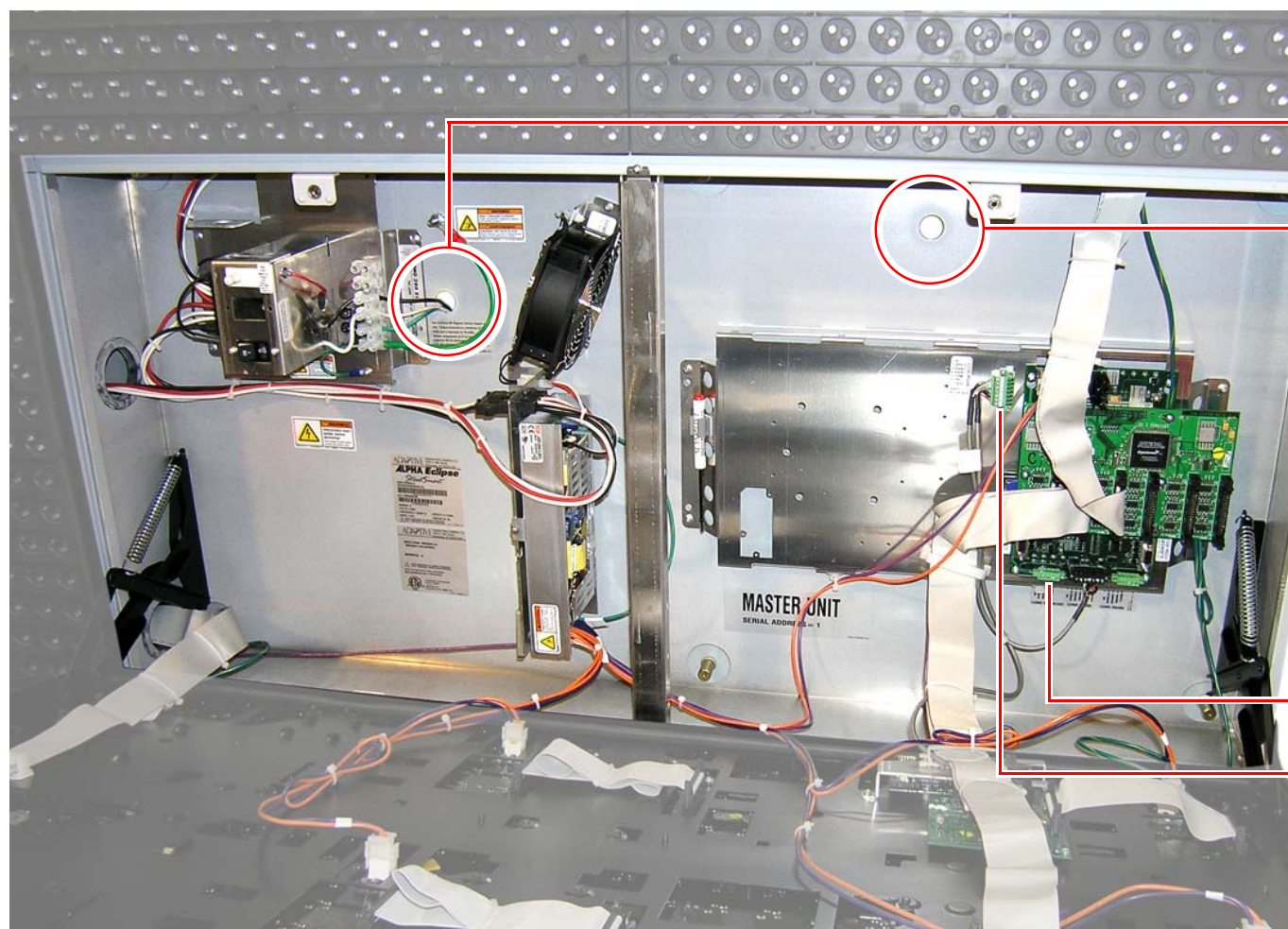


4 There are two, labeled communication cables:



5

Run the two communication cables through one of the conduit openings *under* the controller board:



Power wire conduit hole

Communication conduit hole

- Run communication cables through this conduit hole.
- **Do NOT** run communication cables in the same conduit as the power wires.

COM 0

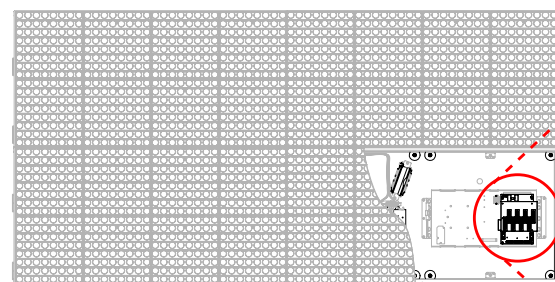
COM 2

Connect communication cables to these (see step #6.)

6

Repeat steps #2 through #5, until all the signs are connected as shown below:

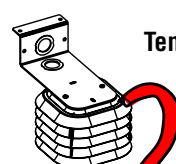
MASTER UNIT
SERIAL ADDRESS = 1



Control cube
(bottom rightmost cube)

Temperature probe (optional)

Mount the probe to a light-colored surface at least 6 feet above ground and **not** in direct sunlight.



COM 2

1 2 3 4 5 6 7

SHIELD
BLACK
RED

GREEN
WHITE

SHIELD
BLACK
RED

CONNECT TO
COM 2 (TEMP PROBE)
IN ADDRESS 2

Controller board
(bottom)

COM 0

1 2 3 4 5

1 2 3 4 5 6 7

1 2 3 4 5

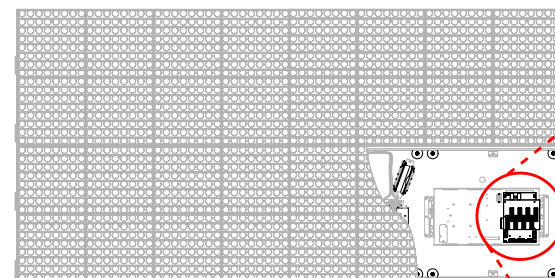
SHIELD
BLACK
RED

CONNECT TO
COM 0 (MAIN RS485)
IN ADDRESS 2

Communication Cable Conduit:

- Run the two communication cables through a conduit.
- Do NOT run communication cables in the same conduit as the power wires.
- Cable that is **not** run through a conduit will deteriorate from exposure to sunlight.

SECONDARY MASTER UNIT
SERIAL ADDRESS = 2



Control cube
(bottom rightmost cube)

COM 2

1 2 3 4 5 6 7

SHIELD
BLACK
RED

SHIELD
BLACK
RED

CONNECT TO
COM 2 (TEMP PROBE)
IN ADDRESS 3

Controller board
(bottom)

COM 0

1 2 3 4 5

1 2 3 4 5 6 7

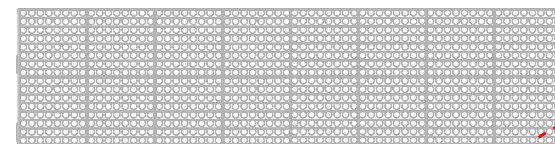
1 2 3 4 5

SHIELD
BLACK
RED

SHIELD
BLACK
RED

CONNECT TO
COM 0 (MAIN RS485)
IN ADDRESS 3

SECONDARY MASTER UNIT
SERIAL ADDRESS = 3



To COM 2 in next sign.

To COM 0 in next sign.

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Complete the sign installation.

- See the “AlphaEclipse StreetSmart Sign Installation Manual” (pn 1179600101).
- Remember to earth ground the sign using the ground lug on the back of the sign.



Ground lug