ALPHA™
Wireless
Data Receiver

Installation
Manual

for use with the
ALPHA 215, Big Dot®, 4000 Series, 7000 Series, and 300 Series
Electronic Message Centers

Table of Contents

NOTE: Due to continuing product innovation,
specifications in this document are subject to
change without notice.

Installation Instructions

What's included in the Data Receiver Kit?

1   Data Receiver
1   Jumper (In clear bag)
1   Access Cover Mount (Only used for ALPHA 215 and Big Dot signs)
2   Access Cover Mount screws (in bag)
2   Velcro strips (Optional. For flush wall mount where applicable. Not pictured below.)
1   3-foot Extender Cable (Optional use. Not pictured below. Used to connect the Data Receiver to an ALPHA 4000 Series or 7000 Series sign when wall mounting either of these signs.)
1   Modular Plug (Optional use. Not pictured below. Used to connect the 3-foot Extender Cable to the cable on the Data Receiver.)

Jumper

Data Receiver (front)

Data Receiver (back) — shown with Access Cover Mount attached.

Figure 1: Data Receiver Kit (photos not to scale).

If you are missing any of the above items, contact your ALPHA distributor.

For ALPHA 215 installation, go to page 2.
For ALPHA Big Dot® installation, go to page 5.
For ALPHA 4000 Series installation, go to page 8.
For ALPHA 7000 Series installation, go to page 12.
For ALPHA 300 Series installation, go to page 16.

ALPHA 215 Data Receiver Setup

Note: **If you're using an ALPHA Big Dot® sign, go to page 5.**
If you're using an ALPHA 4000 Series sign, go to page 8.
If you're using an ALPHA 7000 Series sign, go to page 12.
If you're using an ALPHA 300 Series sign, go to page 16.

Step 1: Unplug the ALPHA sign from its outlet or power source. Make sure to unplug the unit from the outlet, not the back of the sign.

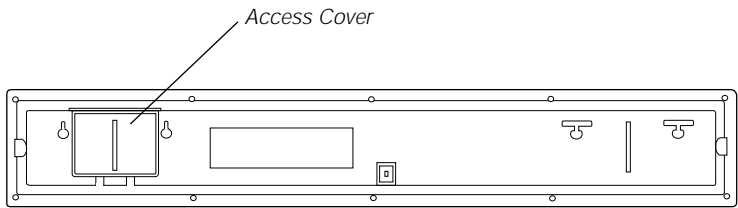Step 2: Remove the Access Cover located on the back of the unit, by sliding it towards the top of the sign:

Figure 2: ALPHA 215 (back).

Step 3: After removing the Access Cover, find the Two-Prong Receptacle located in the compartment:

NOTE: On some models the Two-Prong Receptacle has been removed. If this is the case on your sign, then go to Step 6. You will NOT use the jumper.
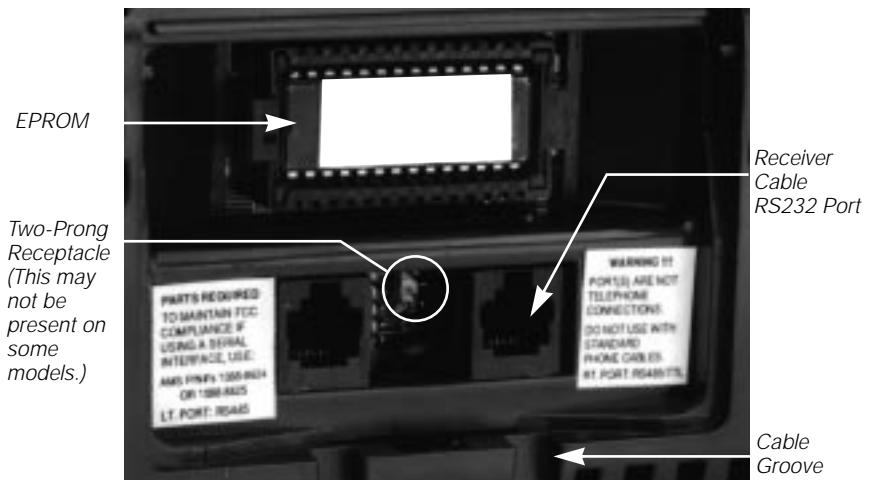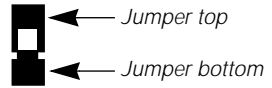

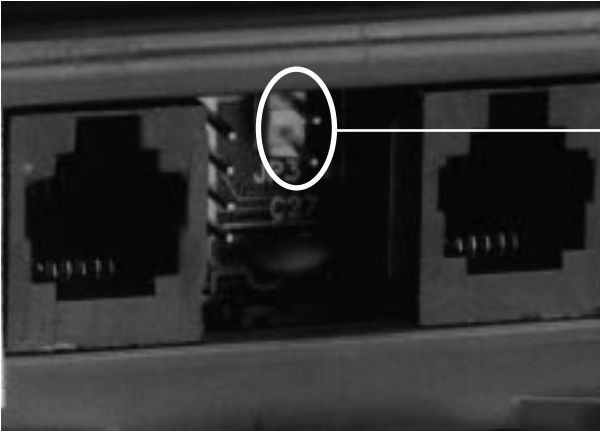*Figure 3: The compartment under the Access Cover.*

ALPHA 215 Data Receiver Setup (continued)

Step 4: Get the Jumper from your Data Receiver Kit. The Jumper (right) is a small dark piece of plastic.

Jumper top

Jumper bottom

STOP *When installing the Jumper, be careful not to drop it inside the ALPHA 215 case. If the Jumper falls inside, service may be required to remove it.*

Step 5: Locate the Two-Prong Receptacle that is below the EPROM. If there already is a jumper over these two prongs, then go to Step 6. Otherwise, place the Jumper bottom over the two prongs. Then push down until the Jumper is secure:

Place the Jumper over these two prongs.

Figure 4: Where to install the Jumper.

ALPHA 215 News Service Setup (continued)

Step 6:   Insert the Data Receiver cable plug into the Receiver Cable RS232 Port on the back of the sign. Then place the cable in the Cable Groove:

Figure 5: Completed installation.

Step 7:   *For Ceiling Hanging, Countertop, and Wall Mounting Brackets:*
Install the Data Receiver (with its Access Cover Mount attached) over the compartment opening on the back of the sign. Remount the sign and restore power.

For Flush Wall Mounts:
Reinstall the *original* Access Cover over the compartment opening on the back of the sign. Remount the sign. Attach one side of the Velcro strips to the Data Receiver's Access Cover. Then use the remaining Velcro to attach the Data Receiver directly to the wall next to the sign. The Data Receiver MUST be installed horizontally with the LED light facing out. Restore the power.

Step 8:   After power has been restored to the sign, the indicator light on the front of the Data Receiver should be on.

Step 9:   This completes the Data Receiver installation.

ALPHA Big Dot® Data Receiver Setup

> **Note:** **If you're using an ALPHA 215 sign, go to page 2.**
> **If you're using an ALPHA 4000 Series sign, go to page 8.**
> **If you're using an ALPHA 7000 Series sign, go to page 12.**
> **If you're using an ALPHA 300 Series sign, go to page 16.**

Step 1: Unplug the ALPHA sign from its outlet or power source.

Step 2: Remove the Access Cover located on the back of the unit, by sliding it towards the top of the sign:
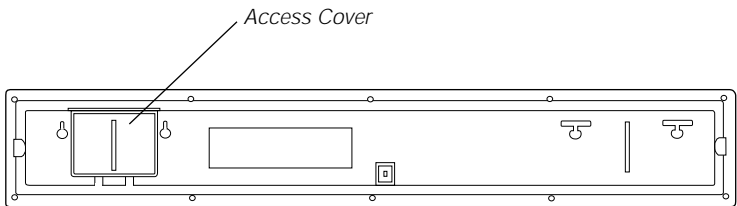

Figure 6: ALPHA Big Dot® (back).

Step 3: After removing the Access Cover, find the Two-Prong Receptacle located in the compartment:
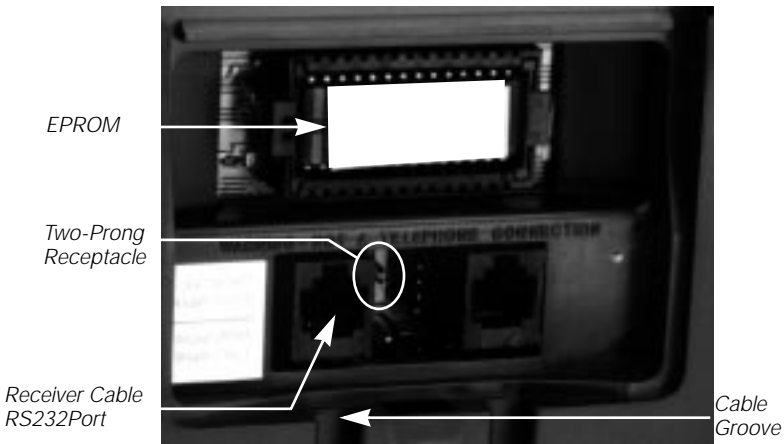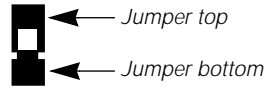

Figure 7: The compartment under the Access Cover.

ALPHA Big Dot® Data Receiver Setup (continued)

Step 4:   Get the Jumper from your Data Receiver Kit. The
          Jumper (right) is a small dark piece of plastic.

◄—— *Jumper top*

◄—— *Jumper bottom*

STOP *When installing the Jumper, be careful not to drop it inside the ALPHA Big Dot®*
          case. If the Jumper falls inside, service may be required to remove it.

Step 5:   Locate the Two-Prong Receptacle that is below the EPROM. If there already is a
          jumper over these two prongs, then go to Step 6. Otherwise, place the Jumper
          bottom over the two prongs. Then push down until the Jumper is secure:
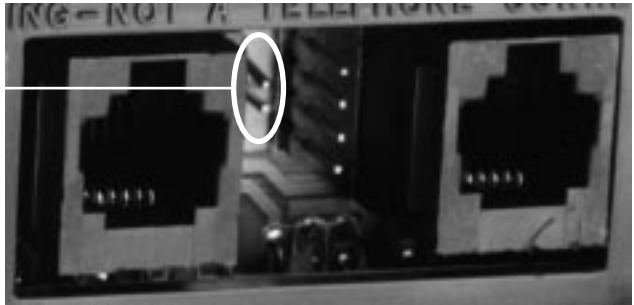
*Place the
Jumper
over these
two prongs.*

Figure 8: Where to install the Jumper.

ALPHA Big Dot® Data Receiver Setup (continued)

Step 6:   Insert the Data Receiver cable plug into the *left* Receiver Cable port on the back of the sign. Then place the cable in the Cable Groove:

Figure 9: Completed installation.

Step 7:   *For Ceiling Hanging, Countertop, and Wall Mounting Brackets:*
Install the Data Receiver (with its Access Cover Mount attached) over the compartment opening on the back of the sign. Remount the sign and restore power.

Step 8:   After power has been restored to the sign, the indicator light on the front of the Data Receiver should be on.

Step 9:   This completes the Data Receiver installation.

ALPHA 4000 Series Data Receiver Setup

Note: **If you're using an ALPHA 215 sign, go to page 2.**
If you're using an ALPHA Big Dot® sign, go to page 5.
If you're using an ALPHA 7000 Series sign, go to page 12.
If you're using an ALPHA 300 Series sign, go to page 16.

Step 1: Unplug the ALPHA sign from its outlet or power source.

Step 2: Remove the Access Cover located on the side of the unit, by grasping the Front Tab and sliding the Access Cover off:
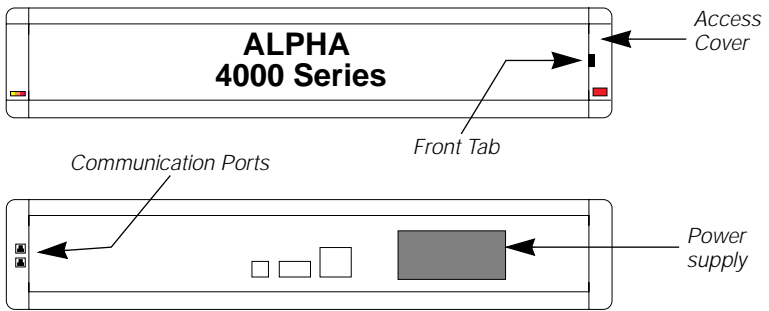

Figure 10: ALPHA 4000 Series sign (front & back).

Figure 11: Access Cover removal.

ALPHA 4000 Series Data Receiver Setup (continued)

Step 3: After removing the Access Cover, find the Two-Prong Receptacle located at the bottom of the EPROM:

EPROM
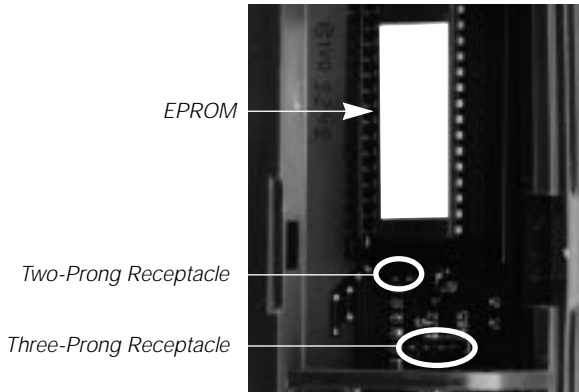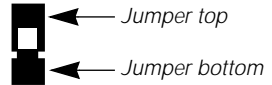
Two-Prong Receptacle

Three-Prong Receptacle

Figure 12: The compartment under the Access Cover.

Step 4: Get the Jumper from your Data Receiver Kit. The Jumper (right) is a small dark piece of plastic.

Jumper top

Jumper bottom

STOP *When installing the Jumper, be careful not to drop it inside the ALPHA 4000 Series case. If the Jumper falls inside. service may be required to remove it.*

Step 5: Locate the Two-Prong Receptacle that is below the EPROM. If there already is a jumper over these two prongs, then go to Step 6. Otherwise, place the Jumper bottom over the two prongs. Then push down until the Jumper is secure:

Place the Jumper over these two prongs (as shown here)
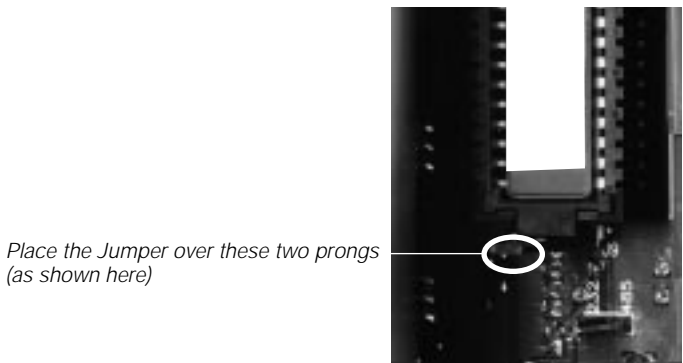
Figure 13: Installing the Two-Prong jumper.

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ALPHA 4000 Series Data Receiver Setup (continued)

Step 6:   Next, find the Three-Prong Receptacle located below the Two-Prong Receptacle. If the existing jumper is *not* on the *leftmost* two pins (for RS232), then remove the jumper and place it over these two pins:
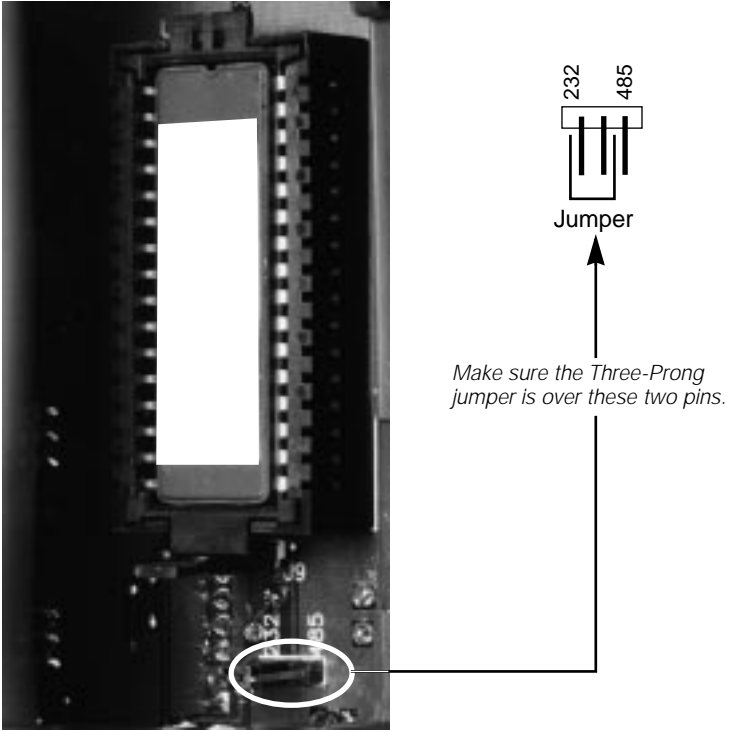

Figure 14: Installing the Three-prong jumper.

ALPHA 4000 Series Data Receiver Setup (continued)

Step 7:   Insert the Data Receiver cable into the bottom Communication Port—the RS232 port—on the back of the sign:

Insert Receiver cable plug into the bottom RS232 port (as shown here)

Figure 15: Data Receiver cable installation.

Step 8:   Reinstall the *original* Access Cover over the compartment opening on the side of the sign. Remount the sign. Attach one side of the Velcro strips to the Data Receiver. Then use the remaining Velcro to attach the Data Receiver directly to the wall next to the sign. Use the 3-foot Extender Cable and Modular Plug to mount the Data Receiver to the wall. The Data Receiver MUST be installed horizontally with the LED light facing out. Restore the power.

Step 9:   After power has been restored to the sign, the indicator light on the front of the Data Receiver should be on.

Step 10: This completes the Data Receiver installation.

ALPHA 7000 Series Data Receiver Setup

> **Note:** **If you're using an ALPHA 215 sign, go to page 2.**
> **If you're using an ALPHA Big Dot® sign, go to page 5.**
> **If you're using an ALPHA 4000 Series sign, go to page 8.**
> **If you're using an ALPHA 300 Series sign, go to page 16.**

Step 1:   Unplug the ALPHA sign from its outlet or power source.

Step 2:   Remove the Access Cover located on the side of the unit, by unscrewing the two
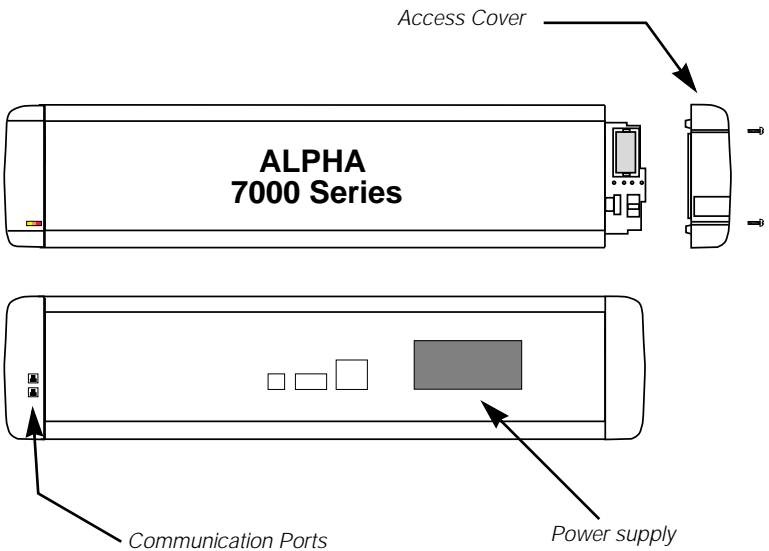screws that hold it in place:

Access Cover

**ALPHA
7000 Series**

Communication Ports

Power supply

Figure 16: ALPHA 7000 Series sign (front & back).

ALPHA 7000 Series Data Receiver Setup (continued)

Step 3: After removing the Access Cover, find the Two-Prong Receptacle located at the bottom of the EPROM:

EPROM

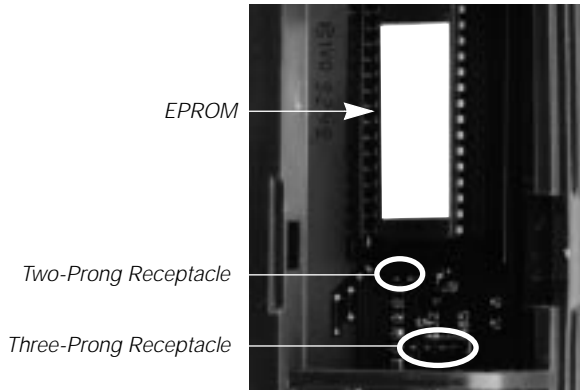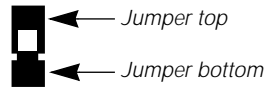Two-Prong Receptacle

Three-Prong Receptacle

Figure 17: The compartment under the Access Cover.

Step 4: Get the Jumper from your Data Receiver Kit. The Jumper (right) is a small dark piece of plastic.

Jumper top

Jumper bottom

STOP

When installing the Jumper, be careful not to drop it inside the ALPHA 7000 Series case. If the Jumper falls inside. service may be required to remove it.

Step 5: Locate the Two-Prong Receptacle that is below the EPROM. If there already is a jumper over these two prongs, then go to Step 6. Otherwise, place the Jumper bottom over the two prongs. Then push down until the Jumper is secure:

Place the Jumper over these two prongs (as shown here)

Figure 18: Installing the Two-Prong jumper.

ALPHA 7000 Series Data Receiver Setup (continued)

Step 6:   Next, find the Three-Prong Receptacle located below the Two-Prong Receptacle. If the existing jumper is *not* on the *leftmost* two pins (for RS232), then remove the jumper and place it over these two pins:
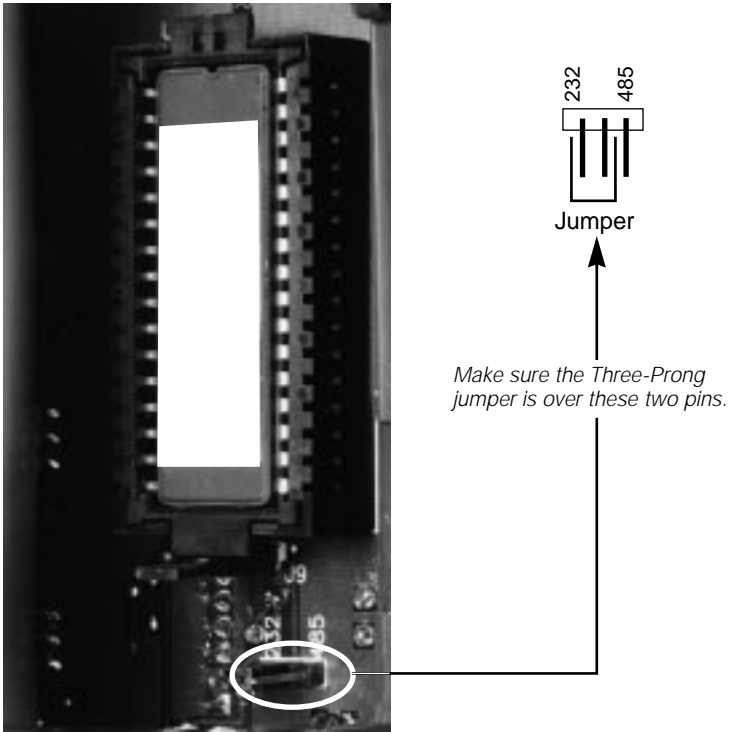

Make sure the Three-Prong jumper is over these two pins.

Figure 19: Installing the Three-prong jumper.

ALPHA 7000 Series Data Receiver Setup (continued)

Step 7:   Insert the Data Receiver cable into the bottom Communication Port—the RS232 port—on the back of the sign:

Insert Receiver cable plug into the bottom RS232 port (as shown here)

Figure 20: Data Receiver cable installation.

Step 8:   Reinstall the *original* Access Cover over the compartment opening on the side of the sign. Remount the sign. Attach one side of the Velcro strips to the Data Receiver. Then use the remaining Velcro to attach the Data Receiver directly to the wall next to the sign. Use the 3-foot Extender Cable and Modular Plug to mount the Data Receiver to the wall. The Data Receiver MUST be installed horizontally with the LED light facing out. Restore the power.

Step 9:   After power has been restored to the sign, the indicator light on the front of the Data Receiver should be on.

Step 10: This completes the Data Receiver installation.

ALPHA 300 Series Data Receiver Setup

Note: **If you're using an ALPHA 215 sign, go to page 2**
If you're using an ALPHA Big Dot® sign, go to page 5.
If you're using an ALPHA 4000 Series sign, go to page 8.
If you're using an ALPHA 7000 Series sign, go to page 12.

Step 1: Unplug the ALPHA sign from its outlet or power source. Make sure to unplug the unit from the outlet, not the back of the sign.

Step 2: Insert the Data Receiver cable plug into the right Communications Port—the RS232 port—on the back side of the sign:

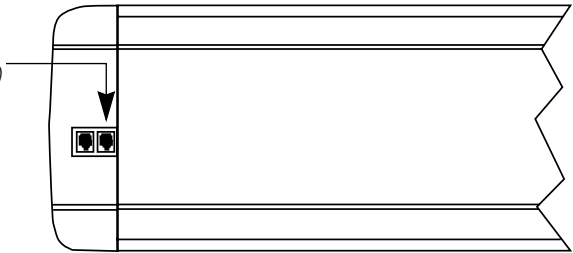*Insert Receiver cable plug into the right port (as shown here)*

Figure 21: Data Receiver cable installation.

Step 3: Remount the sign. Attach one side of the Velcro strips to the Data Receiver. Then use the remaining Velcro to attach the Data Receiver directly to the wall next to the sign. Use the 3-foot Extender Cable and Modular Plug to mount the Data Receiver to the wall. The Data Receiver MUST be installed horizontally with the LED light facing out. Restore the power.

Step 4: After power has been restored to the sign, the indicator light on the front of the Data Receiver should be on.

Step 5: This completes the Data Receiver installation.