

Technical Bulletin #2

Objective: This document provides best-practice recommendations for using your X-System.

If you have any questions after reviewing this document, please consult the additional product documentation available at www.coachcomm.com/x-system or call Customer Support at 1.800.749.2761.

Covering Your RTs

When using your Radio Transceivers (RTs) in a wet environment, protect them with a protective enclosure that will not interfere with the RF (for example, a clear plastic bag). CoachComm recommends either covering each RT individually with small bags or covering the whole RT bracket with a large bag. The X-System Radio Transceivers are weather-resistant, including gaskets intended to prevent moisture entry from the top and sides. The Cat 5e cable connection on the bottom is not water tight.

Turning On 2-Wire Ports and Adjusting Levels

Some teams elect to turn off their 2-Wire ports for each Control Unit (CU) so they can use the Sideline Cart alone for wireless communication during practice. **Always make sure that the 2-Wire ports are turned on prior to game day. Failure to do so will result in no communication between wireless Radio Packs (RPs) and the wired system.**

To turn ports ON:

1. Navigate through the CU menu to **Wired Settings > Intercom Settings**.
2. Select a 2-Wire port (**2W1** to **2W4**), then press the Enter button. A menu of available types will display.
3. Scroll to select **AudioCom**, then press Enter.
4. Verify that the IN level for the port is **-6**.
5. Verify that the OUT level for the port is **+4**.
6. Repeat steps 1–5 for each 2-Wire port of all connected Control Units.

NOTE: 4-Wire ports are not used in standard X-System operation and should be turned off.

To turn ports OFF: Select **OFF** as the port type.



Figure 1: Control Unit Intercom Settings Menu

Cable Plugs

In the event of cart or battery power issues, first ensure that all cords are properly plugged into the AC Rack Power Strip (vertical power strip inside cart's rear door) and into the AC Power Distribution Unit (accessible under the 5-Bay Battery Charger drawers).

Power Draw

During normal system operation, the sideline cart pulls around 4–6 A of power. You can see this on the screen on front of the AC Power Distribution Unit (bottom of the front rack). This number will spike to around 10–14 A when the cart's battery bank is being charged. As batteries charge, the amperage will decrease and return back to the normal range when fully charged.

Pregame Walk Testing

It is imperative that you check all aspects of your system each game day. Here are some helpful recommendations:

1. **Ensure your system is on a dedicated power circuit**—both on the field and in the press box. Both Tempest NG and X-System come with on-board battery backup systems in the event of power loss, but these backups are not intended to support the system for an entire game.
2. **Test your stadium lines.** Use both the system dry pair tester as well as wired BeltPacks to talk across all lines from field to press box.
3. **Test your wireless-to-wired audio.** Ensure that each wireless RP on the field can communicate across its assigned channels on the wired system. CoachComm recommends that this test be performed with at least two people: one individual in the press box and one on the field who is responsible for testing each wireless RP.
4. **Walk test your wireless RPs.** Be sure that you are walking each wireless RP and paying attention to the quality of audio being heard and being voiced through the RP. At a minimum, you should walk each RP from one end of the coach's box to the other, placing the RP on your hip opposite the antenna. Effective system administrators walk the RPs on the entire grass surface.