



## Tempest Manual Buzz Test Procedure

**Objective:** This document provides instructions for testing all parts of a Tempest system for possible issues after changing radio modules. It is extremely important that you follow all of the steps of this test procedure to ensure that any problematic radios are identified.

### Required Equipment:

- Tempest BaseStation
- Tempest BeltStation
- Tempest Remote Transceiver
- 3.5 mm pairing cable
- Headset

### Test Procedure for a BaseStation

1. Turn on one Tempest BaseStation and plug a headset directly into the BaseStation.
2. Turn the Talk button ON and talk into the headset. Make sure the volume is all the way up.
  - a. Take note of how it sounds with the old radio module.
  - b. Does it already have a buzz or static or any other abnormal sound?
3. Turn the BaseStation off and replace the old module with the new one.
4. After replacing the module turn the BaseStation on and re-pair any BeltStations.
  - a. Re-pairing will make sure the BaseStation can connect to BeltStations without any problems.
5. Once again, plug a headset directly into the BaseStation, turn the Talk ON, and listen to the headset. Again, make sure the volume is all the way up.
6. At this point, you are comparing the old and the new radio modules. If there is any new noise or buzz that was not present with the old radio module, then the new radio may be bad.
7. If the BaseStation sounds the same or even better than before, the new radio module should be good.

### Test Procedure for a BeltStation

1. Turn on one BaseStation and one BeltStation. Make sure they are paired together.
2. Make sure the BeltStation Talk button is ON and listen through a headset.
  - a. Take note of any noise that you may hear.
  - b. This includes buzz, noise, or any other abnormal sound.
3. Turn the BeltStation off and replace the radio module.
4. Re-pair the BeltStation to the BaseStation and make sure it connects. If it will pair but won't connect or if it connects right next to the BaseStation but then loses connection after only a short distance, the radio module may be bad.
5. Again turn the Talk ON and listen through a headset to see if there is any noise. Make sure the volume on the BeltStation is turned all the way up.
6. At this point, you are comparing the old and the new radio modules. If there is any new noise or buzz that was not there with the old radio module, then the new one may be bad.
7. If it sounds the same or even better than the old module, the new one should be good.

### Test Procedure for a Transceiver

1. Turn on the Transceiver, one BaseStation, and one BeltStation that is paired to the BaseStation.
2. Please note the lights that are lit on the Transceiver—Power, TX, Sync, and RX (if there is a BeltStation connected). Also note the range that you usually get with your current radio module; this is the distance the BeltStation can travel away from the BaseStation without losing its signal.
3. Turn the BaseStation off and replace the module in the Transceiver.
4. Make sure the Transceiver is connected via CAT-5 cable to the BaseStation and turn the BaseStation back on.
5. Make sure that the lights mentioned in Step 2 are lit and check to see if the BeltStation will log on through the connected Transceiver. If the BeltStation won't connect or if the signal strength is significantly worse than before, the new radio module may be bad.

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