Dual Radio Function

Operation:

The XSJB also allows up to two* X10DR gateway devices to be connected to 2 separate host radios (or one radio and a satellite link etc.). The X10DR PTT button is pressed to transmit on the radio device connected to the "Main" port. The top centre "Control" button is used to transmit on the radio (or other device) connected to the "Secondary" port. Only one X10DR user can talk on one radio at anyone time but both can hear both sides of all conversations.

Alignment:

To align the XSJB you will need a test radio/s on the same channel/s as your host radio/s so that you can talk to and monitor the X10DR audio levels. Start by setting the receive audio volume on the X10DR Mic to level 4 by pressing the volume up button 7 times and then press the volume down button othree times. Talk on the test radio and adjust trimpot MRI to set the receive volume in the X10DR. Talk on the X10DR microphone via Main radio and adjust trimpot MRO for correct transmit deviation so that it matches the host radio's wired mic levels. Listen on the test radio for clarity and volume. Repeat the process for Secondary radio, adjusting trimpot SRI for transmit deviation, and trimpot SRO for receive volume.

The Secondary radio port offers a marker tone at the end of receive to distinguish from the Main radio receive audio (only available with radio devices which have a COR indicator). Momentarily transmit on the test radio on the same channel as radio 2 and notice the beep heard in the X10DR at the end of each transmission. Adjust trimpot TONE to set preferred volume of the marker tone. Note: setting the marker tone level too loud will often cause user dissatisfaction within a few weeks of usage. The recommended level setting is "just" audible.

Talkaround:

The X10DR devices when configured for dual radio operation, utilizing a XSJB device, are not normally able to also have talkaround, local "off-network" communication between handsets. However all associated X10DR handsets can still hear all sides of all conversations and can thus still communicate in that fashion although each transmission is also being broadcast over a radio channel. Optional ways to still have the "off-network local talkaround capability would require limited secondary radio access either at times or in functionality.

Mode A – Secondary Port: Receive only operation.

This could be achieved by use of a custom firmware or a custom XCA radio interface adaptor so as to remove the X10DR's Secondary PTT. (Contact your Wireless Pacific Distributor for further details).

Mode B – On demand Secondary radio.

This could be achieved by simply manually turning off the secondary radio whenever the need for local off-network communications is a higher priority operational requirement.

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*TDMA/Non TDMA Radios

*Whilst the XSJB provide two X10DR ports, only one X10DR Elite may be connected if either of the attached host radios use TDMA technology. To connect two or more X10DR Elite devices with host TDMA radios, the X10DR Elite devices should connect via XJB-DCI junction boxes so as to avoid unwanted TDMA noise passing from the host mobile radios. Non-TDMA installations do not have this configuration requirement and if desired multiple X10DR Elite devices can be connected via a XJB junction box connected to XSJB units "X10DR" ports 1 & 2.