
BENDIX/KING® Installation Bulletin

BULLETIN NO. 381

Applicable to: VC 401B P/N 3614001-4001/4002,
P/N 064-1047-00/01/02/12/22/32

SUBJECT: Receiver audio phasing.

AlliedSignal has received reports that some VC 401B units have left the factory with the audio phase reversed. Testing methods did not inspect for the incorrect wiring of some audio transformers where the wires for one or both of the windings were reversed. Additional final testing procedures have been incorporated to maintain a consistent audio phase for VC 401B Communications transceivers shipped from the factory.

Since there is a possibility two VC 401B transceivers channeled to the same frequency may have opposing phases of audio that could reduce the volume of the message to the crew (anti-phase), AlliedSignal recommends that all VC 401B transceivers below serial numbers: 3885 for P/N 064-1047-00/01 or 3614001-4001/4002 and 20423 for P/N 064-1047-02/12/22/32 be tested for correct audio phasing. The following test procedure can be used to test for correct audio phasing.

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Procedure For Operational Test With Units Installed In The Aircraft.

1. Check for VHF-Comm Audio Antiphasing as follows:
 - A. Tune both VHF-Comms to a local ATIS frequency.
 - B. Verify that with VHF-Comm 1 only, the ATIS information is available, and set the volume as desired.
 - C. Deselect VHF-Comm 1 audio.
 - D. Verify that with VHF-Comm 2 only, the ATIS information is available, and set the audio volume to the same level (approximately) as was set for VHF-Comm 1.
 - E. In Addition to the VHF-Comm 2 audio, select the VHF-Comm 1 audio "ON", with the audio volume that was used in step "B".
 - F. Listening for both VHF-Comms simultaneously, verify the audio level is not canceled or reduced.
2. If the audio is reduced or canceled when two VHF-Comms tuned to the same frequency are listened to simultaneously, both units should be removed for bench testing, Test the units in accordance with Service Bulletin VC 401B-19 to determine if either one has a audio phasing problem.

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