

# TECHNICAL BULLETIN

**#109** October 11, 2000

## IMPROPER SMALLTALK® BATTERY INSTALLATION

Products Affected: TwentyTwenty® SmallTalk® Module, 962311 and SmallTalk® Amplifier, 961638

Our SmallTalk Voice Projection System (VPS), available for both the Classic and TwentyTwenty facepieces, uses a 9-volt battery. We have had several instances reported by end users of SmallTalk failure after installation of the battery. We have determined that improper installation of the battery is the cause of these failures.

The battery must be installed as shown on the orientation decal located adjacent to the battery door. Batteries installed improperly will cause the fuse to short-circuit as well as damage the electronics in the VPS amplifier. Do not force the battery door closed; hard-to-close battery doors are an indication that the terminals are not connected properly. **Damage to the SmallTalk due to improper installation of the battery is not covered under the Survivair warranty for this product.**

Below is a reproduction of the battery replacement instructions from the Installation and Operation Manuals for the equipment. Please make certain when delivering this equipment to end users that they are aware of the potential for damage to this device.

Classic Style Facepiece  
Section IV-Operations  
subsection C-Battery Replacement

### C. Battery Replacement

#### **WARNING**

Do not change the battery in an area with a hazardous atmosphere. Intrinsic safety certification of electronic components does not eliminate the potential for explosion or ignition of combustible contaminants. Use only 9-volt alkaline batteries conforming to standard NEDA 1604A, such as Eveready, Energizer #522 or Duracell MN 1604.

1. Snap open the battery compartment door (if necessary, insert the blade of the screwdriver between the door locking tab and the battery case and gently twist the blade).
2. Install a 9-volt battery into the compartment terminals first, with the positive terminal farthest away from the AIR KLIC, as shown on the battery orientation decal located adjacent to the battery door.
3. Close and latch the battery compartment door.

TwentyTwenty Style Facepiece  
Section XI-Maintenance  
subsection C-Battery Replacement

C. VPS Battery Replacement (P/Ns 962301 and 962302 only)

<b>WARNING</b>
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A 9-volt battery meeting National Electronics Distributor Association (NEDA) Standard 1604, a Duracell MN1604 or Energizer No. 522, must be used in order to maintain the intrinsic safety certification of this product. Failure to comply with this warning may lead to serious personal injury, serious illness, or death.
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<b>CAUTION</b>
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It is possible to forcibly install the battery in the incorrect orientation. Incorrect installation of the battery in this manner will damage the electronics in the VPS amplifier. Always verify that the amplifier is operating properly after replacing the battery.
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1. Remove the VPS amplifier from the facepiece and snap open the battery case door. (If necessary, insert the blade of the screwdriver between the door locking tab and the battery case and twist.)
2. Install the 9-volt battery as shown on the battery orientation decal located adjacent to the battery door inside the battery compartment.