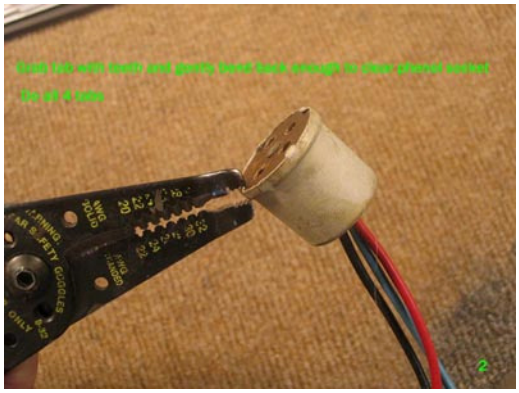
Installing the Z1 Connector in an 8G005 Zenith Trans-Oceanic

The purpose of the Z1 connector is to connect a 1.5 volt Z1 battery in series with the 9.0 volt A side of the Z985 battery pack, producing 10.5 volts of A voltage for the tube filaments. This is necessary because the 8G005 Trans-Oceanic radios have a push-pull audio output, which adds an additional vacuum tube to the filament string, requiring 1.5 volts more than the Z985 battery pack produces.

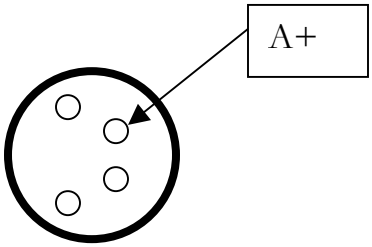
Note that the pins of the Z1 connector are of unequal size. The large pin connects to the positive terminal of the Z1 battery.

Installation of the Z1 connector

1. Carefully bend back the four metal tabs with pliers, and slide the metal housing back to expose the female Z985 battery socket.



2. Hold the socket with the holes facing you, with the wider spaced holes to the left, and the two closer spaced holes to the right. The A+ hole is at the 2:00 o'clock position:



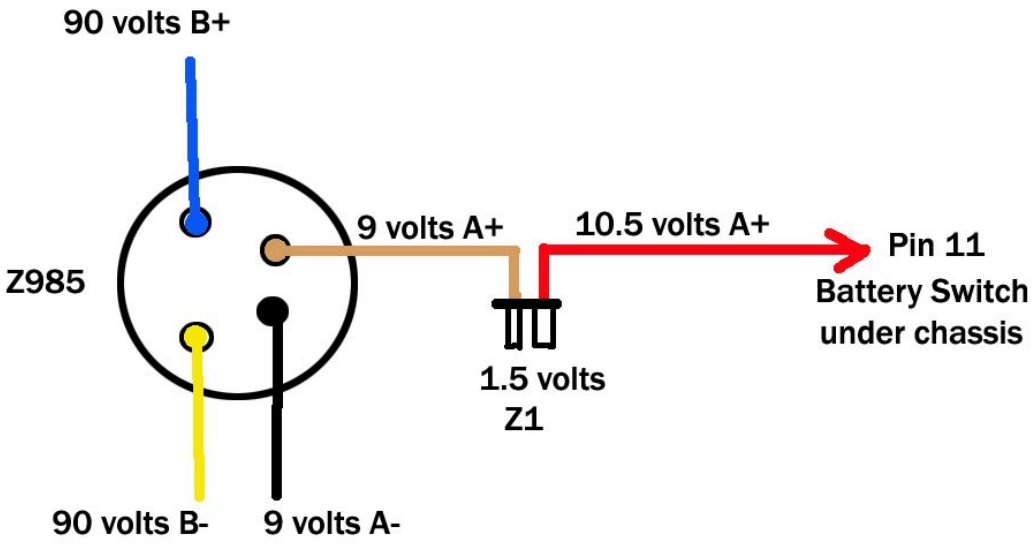
3. Pass the brown lead from the Z1 connector through the rear of the metal housing and solder to the A+ terminal. Do not obstruct the inside of the terminal, or the male pin on the battery side connector may not mate properly. Reassemble the connector.

4. Remove the chassis from the cabinet.

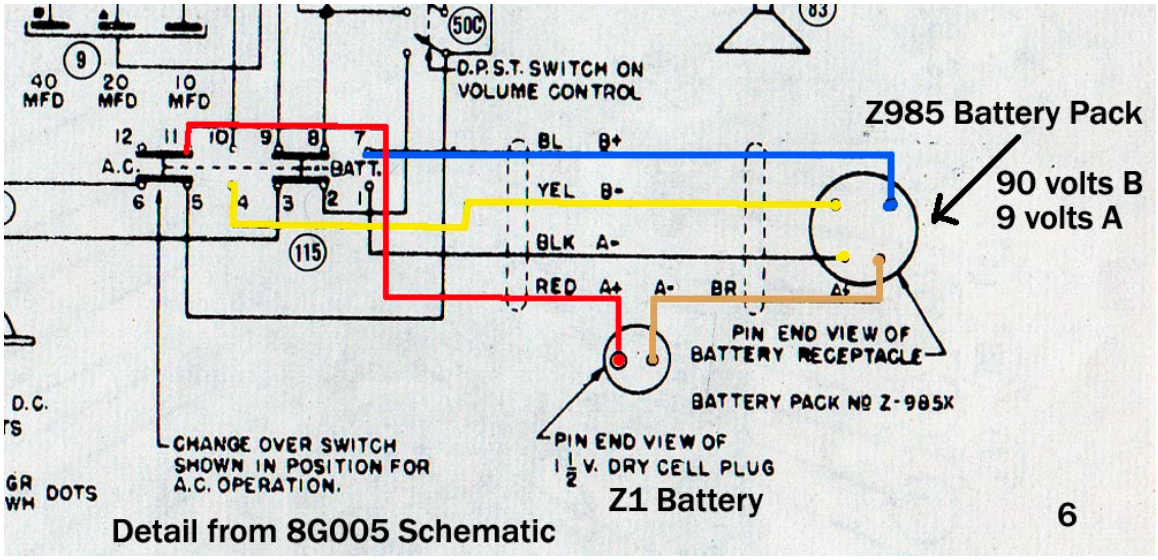
5. Feed the red lead from the Z1 connector through the same access hole in the rear apron of the chassis where the other connector leads pass through.

6. Locate the battery change-over switch and solder the red lead to pin 11.

7. Test the installation before re-installing the chassis in cabinet.



Detail from 8G005 Schematic



Location and Terminal Pins of the Battery Change-Over Switch