

ELECTROAIR SERVICES

Instruction sheet #2

**Replacing a wire microphone boom with
wire/flexible type**

These instructions are based on a modification performed on a Gentex helmet. A similar procedure should be followed to modify a headset, except that the microphone cord connection on the headset is made internally.

Removing the wire boom

1. Start by loosening the boom mount so as to allow the boom to slide easily within the mount.
2. Next loosen the boom mount securing screw. On the Gentex helmet, a screwdriver must be used on the inside and outside at the same time.
3. Remove the wire boom mount, complete with boom, from the helmet. (In picture 1, the screw from the inside can be seen next to the mount).

Picture 1 – Wire boom removed from the Gentex helmet



4. Now remove one side of the wire boom from the boom mount as shown in picture two below.

Picture 2. One side of the wire boom removed from the mount.



5. Remove the remaining side of the wire boom from the mount.
6. You will now have the bare mount ready for fitting of the new boom.

Picture 3. The boom mount ready for fitting of the new boom.



7. Fit one side of the new boom into the mount ensuring that the side of the microphone mount with two screw holes, is facing **towards** the helmet.

Picture 4. The first side of the boom fitted to the mount.



8. Fit the remaining side of the boom into the mount then tighten the knurled nut, ensuring that the boom is fitted correctly into the slots in the mount. Test to ensure that the boom will slide when the knurled nut is loosened slightly.
9. Next fit the boom mount to the helmet, in the reverse procedure to that used for removal.

Picture 5. The new boom mounted on the helmet.



10. **For helmets**, cut the old microphone cord and solder the new microphone cord onto it, (taking care to achieve correct polarity) be sure to insulate each joint with heat shrink sleeving, and use heat shrink sleeving to cover the entire joint, extending at least 1cm past each end of the joint.
11. **For headsets**, lead the new microphone cord inside the ear cup after removing the old cord. Then solder the new cord to the same points the old cord was connected (typically red, white, and shield). Insulate the joints with heat shrink sleeving.

HINT:

If you feel this work is beyond you, or you have any doubts at all, Electroair Services can carry out the modification for you. You can contact Electroair Services at <http://www.electroair.co.nz/contact.html> or email electroair@xtra.co.nz.