

CHAPTER 2-0

SERVICING : GENERAL INSTRUCTIONS

CONTENTS

Para

- 1 Precautionary, operational and storage procedures
- 4 Earphones
- 5 Microphones
- 6 Instructions for maintenance of headsets and microphones (WARNINGS)

PRECAUTIONARY, OPERATIONAL AND STORAGE PROCEDURES

- 1 Keep electrical connectors clean and dry. The older types of electrical cordage with braided textile covering are vulnerable to moisture ingress and their use in damp conditions should be avoided as far as possible.
- 2 After use, headsets are to be stored so as to allow moisture due to condensation, etc, to dry out. Headsets with acoustic tubes are to be placed so that moisture can drain from the tubes.
- 3 Do not blow into a microphone or an earphone, for any reason.

EARPHONES

- 4 To obtain maximum noise exclusion from an ear defender type earshell, the earpad must be fitted tightly against the wearer's head, fully enclosing the ear. The position of the earshell on the headband should be adjusted to obtain correct fitting. On some headsets an adjustable headband is provided, which should be adjusted to obtain maximum pressure on the earpads, consistent with wearer comfort. On headsets fitted in protective helmets, the adjustment is part of the helmet fitting process, and is described in the publication for the helmet.

MICROPHONES

- 5 A noise-cancelling microphone is constructed so that the diaphragm is open to atmosphere on both sides. Sound waves from distant sources act on both sides of the diaphragm simultaneously and produce little or no movement, whereas sound waves from a nearby point source act on one side to produce a large movement. To obtain maximum noise attenuation, the microphone is to be positioned around 10 mm from the lips, and the rear face of the microphone must not be covered.

INSTRUCTIONS FOR MAINTENANCE OF HEADSETS AND MICROPHONES**WARNINGS**

DETERGENT. REFER TO THE DETERGENT WARNING IN THE PRELIMINARY PAGES OF THIS PUBLICATION.

- ▶ 6 The user is to examine the headset before and after use for signs of damage or deterioration, such as corrosion, loose or missing fastenings, degradation of non-metallic materials, security of the lapel clip on downloads with clip and switch assemblies, etc. Where oxygen mask catch-plates and counter-pressure strap are fitted, check that the spring catches work correctly and that the strap is not damaged. ◀ Where ear defender type earshells are fitted, check that acoustic dampers are in the earshells.

7 Headsets and microphones are to be tested periodically for correct electrical performance using prescribed test equipment. The test to be used is specified in the detail chapter for each equipment. Test methods are described in the publication for the test equipment. The frequency of testing will depend on the level of utilization of the headsets and the availability of facilities, and will be laid down by the Engineering Authority concerned. Refer to the Support Maintenance Policy Statement for Communication Headsets AP116Z-0400-2(R)1.

8 In general, microphone elements and earphone elements are sealed units and are to be replaced if found faulty.

9 Fabric covers are provided for the earpads on some headsets. They may be removed and washed, or replaced if desired.

10 The plastic material of earpads and headband covers tends to harden after prolonged exposure to perspiration, resulting in loss of performance and comfort. To increase their Service life they are to be wiped periodically, preferably daily after use, using a cloth moistened with a mild detergent. Items which show hardening or cracking are to be replaced.

11 All exterior cleaning of headsets and microphones is to be carried out using a mild detergent. Solvent cleaning fluids are not to be used.

12 When reassembling any portion of an equipment, care must be taken to apply locking compound to screw threads in accordance with the assembly instructions given in the detail chapter.