



Alternative soft ear cup (JHMCS)

Unscrew the earphone element connectors from the element. Place the connectors respectively in the holes of the helmet kit connectors. Secure the locking screws in the helmet kit connectors. Use of low/medium strength thread lock agent is recommended. Insert helmet kit connectors into the earphone element receptacles and secure the locking screws.



Place the original audio connector in to the hole located in helmet kit connector and secure the screw.



Completed connector wiring

Assemble the headphone assembly back in the helmet shell.

5. TESTING

Test the installation with a suitable helmet audio test kit with CEP system plugged in and without a CEP plugged in.



INSTALLATION MANUAL

CEP HELMET KIT

This manual covers the installation for common aircrew helmets. Instructions can be applied to other types of flight helmets by a qualified ALSE technician. Helmets used in this manual for illustrative purposes include GENTEX® ACS and GENTEX® JHMCS.

NOTE

For correct locating of CEP Helmet Kit connector hole, always refer to your official flight helmet technical manual. Instructions here are for illustrative purposes only. The work should only be carried out by a qualified ALSE technician.

NOTE

Always use suitable protective gear, such as goggles and gloves. Refer to your local occupational safety instructions.

1. LOCATING AND DRILLING

Locate a suitable place for helmet kit connector on the right side of the helmet. The correct location is dependable of user's preferences and anatomy. Have the user to don the helmet and mark correct location of the connector to the helmet shell. Nominal distances for drilling are 25mm horizontally and 17mm vertically from the screw mounted on the right side of the helmet. Measuring directions are towards front of the helmet horizontally and upwards from the helmet lower edge vertically. Always check the location and adjust accordingly to avoid any interference with helmet inner parts.

NOTE

Some helmet manufacturers have marked and/or instructed the helmet kit receptacle location. Always use helmet manufacturer's instruction primarily.



Locating the drilling hole



Check that marked location is acceptable also inside the helmet shell. Helmet earphone cups should not be located on the end of the helmet kit connector.



Drilling the hole



Drill a 9.5mm hole on the marked location. Refer to your official technical manual for correct drilling instructions and drill bits to be used. Note that most aramid-composite woven materials tend to burr and loose aramid threads need to be removed with a sharp knife. In some materials a suitable pilot hole is recommended before 9.5mm drill.



Finishing the hole



File the drilled hole to suitable diameter. Use helmet kit connector as a guide. The fit should be fairly tight, so that the connector threads in the hole.

2. PLACING THE CONNECTOR

Place the connector to the filed hole. Insert the helmet kit ground wire (with a ring connector) to the SMB connector. Secure with supplied locking plate and nut tightly from the inside of helmet shell.



Placing of the connector



3. SOLDERING THE CONNECTOR

Solder the bare helmet kit wire (white) to center pin of the SMB-connector. Cover with supplied protective cover. Secure the wires with a zip-tie around the tab of the helmet kit ground connector as a strain relief if needed.

4. EARPHONE AND EARCUP WIRING



Earphone

Disassemble your helmet earphone assembly from the helmet shell. Remove hygiene kit. Pry the earphone element from the ear cup and remove the earphone element from its padding.

Drill a suitable hole to the ear cup shell next to the helmet earphone wiring hole. Route the helmet kit cables through the hole. Secure the wires to the hole with a supplied rubber grommet.



Drilling and routing of the wire (HGU-55 and ACS style)

