

INCH-POUND

MIL-DTL-83511/4C  
w/AMENDMENT 1  
19 September 2012  
SUPERSEDING  
MIL-DTL-83511/4C  
11 March 2004

DETAIL SPECIFICATION SHEET

HEADSET-MICROPHONE  
H-161F/GR

Inactive for new design after xxx xx, 2012

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-83511.

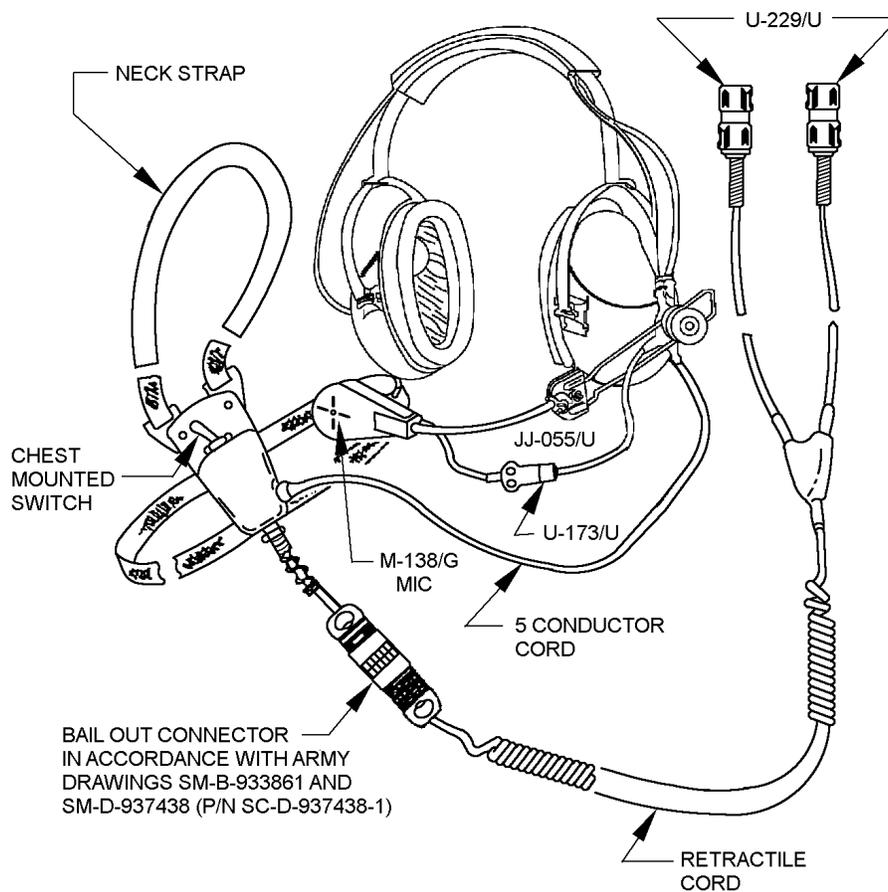
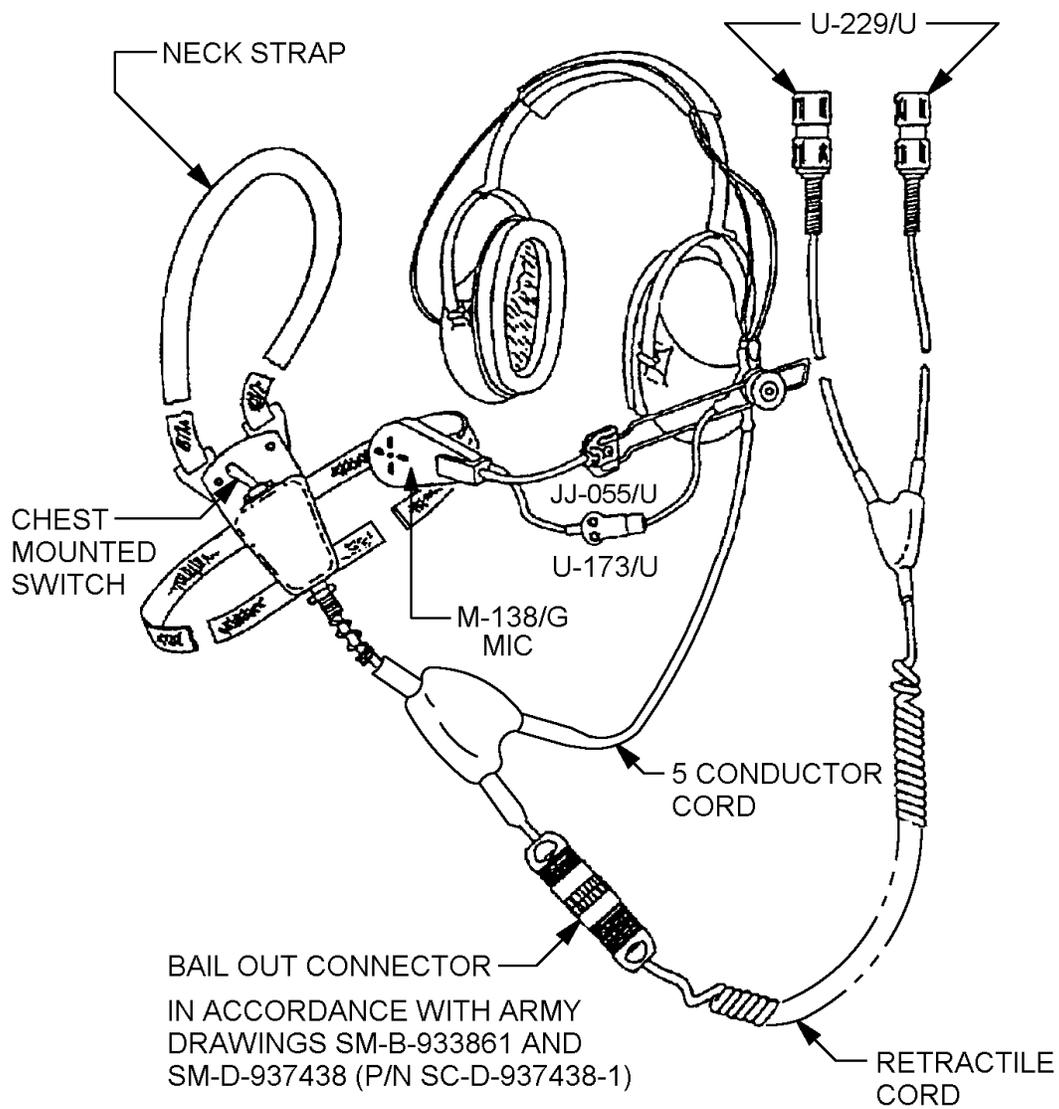


FIGURE 1. Headset-Microphone.

MIL-DTL-83511/4C  
w/AMENDMENT 1



NOTE: The placement of the 5-conductor cord branches into a Wye located between the bail out connector and the chest mounted switch.

FIGURE 2. Headset-Microphone (alternate design).

MIL-DTL-83511/4C  
w/AMENDMENT 1

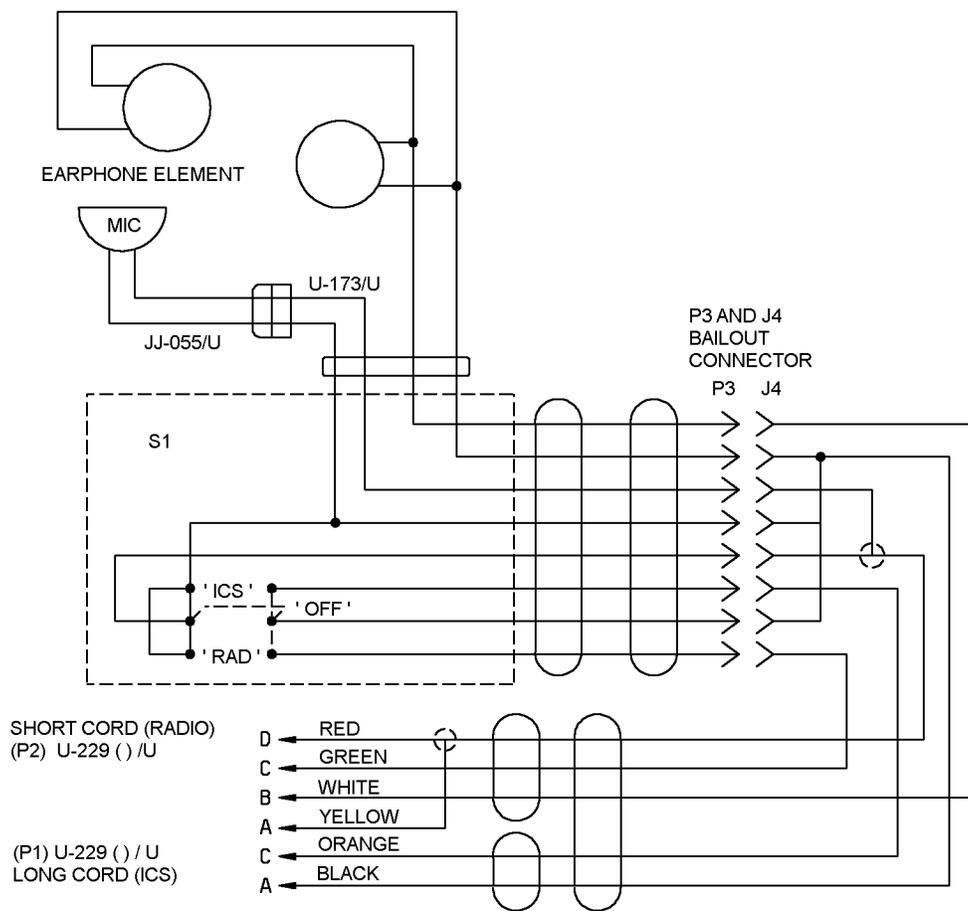
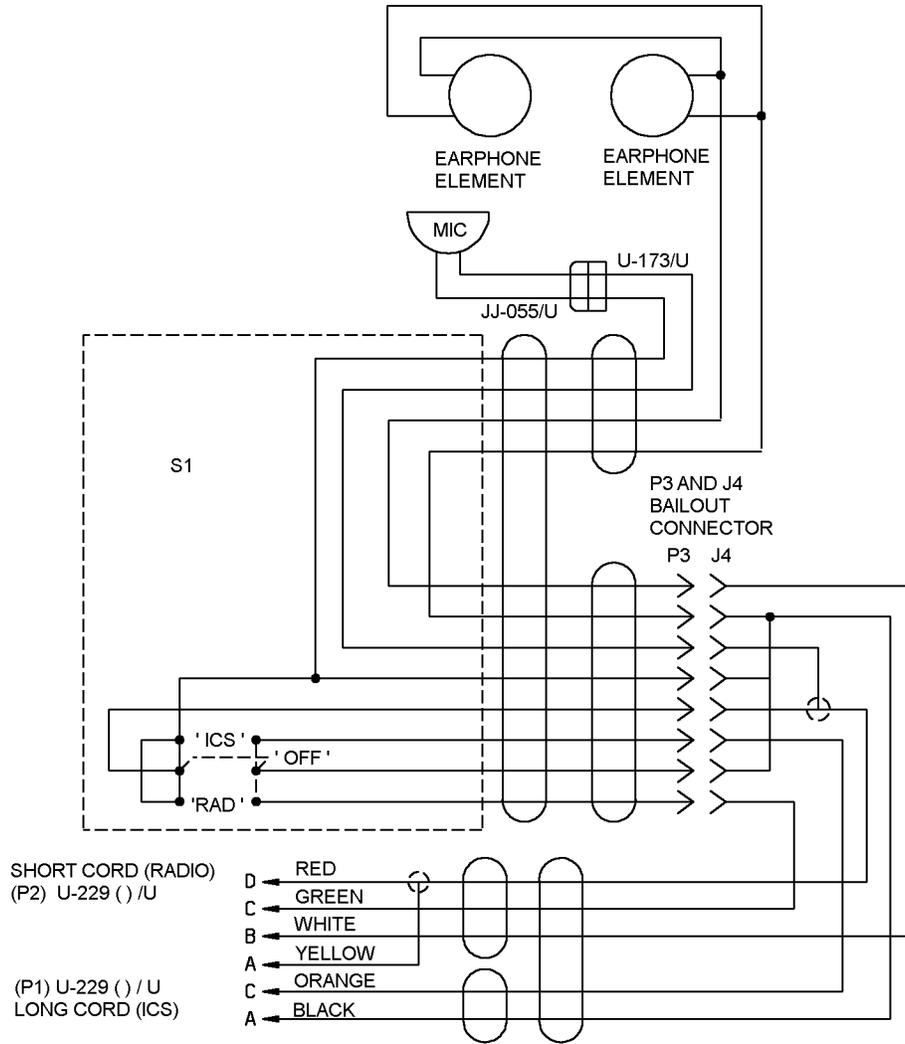


FIGURE 3. Wiring diagram.

MIL-DTL-83511/4C  
w/AMENDMENT 1



NOTE: The placement of the 5-conductor cord branches into a Wye located between the bail out connector and the chest mounted switch (S1) (see figure 2).

FIGURE 4. Wiring diagram to the alternate design.

MIL-DTL-83511/4C  
w/AMENDMENT 1

REQUIREMENTS:

Interface: Shall be at the manufacturer's option using figure 1 or optional design, see figure 2. Figures 1 through 4 are for illustration purposes only and all referenced drawings and specifications cover design.

Earphone: Two required (1,000 ohms each) shall be in accordance with MIL PRF-25670/5, Part or Identifying Number (PIN) M25670/5-01.

Microphone: M-138/G shall be in accordance with MIL-PRF-26542 and MIL-PRF-26542/10.

Microphone boom: One required USAF Drawing 67B1854 or equal.

Switch: Toggle shall be in accordance with MS35059 or equal.

Chest mounted switch case assembly: In accordance with Army drawing SM-D-436135 with the exception of the CX-8652/GR cable assembly, which is modified as detailed in this specification sheet. Cord connection from headset to switch case shall be made in accordance with figure 2 at the manufacturer's option.

Cordage: Connection shall be in accordance with the wiring diagram on figure 2. The construction of the individual cable assemblies shall be in accordance with the following military specifications or drawings:

Bail out connectors shall be in accordance with Army drawings SM-B-933861 and SM-D-937438.

Headband cable assembly (ear to ear): WD27/U shall be in accordance with MIL-DTL-10392 and MIL-I-3930.

Headset to chest switch cable assembly 5-conductor shall be in accordance with Army drawing SCL-6608, which shall be a watertight interface with switch case assembly.

Chest switch to bailout plug 5-conductor shall be in accordance with Army drawing SCL-6608, which shall be a watertight interface with assembly.

Cord assemblies:

Bail out connector to Wye junction (retractile, 6:1):	49.00 inches (1244.6 mm)
"Y" junction to U-229/U:	8.00 inches (203.2 mm)
"Y" junction to U-229/U:	9.00 inches (228.6 mm)

Wiring schematics: See figures 3 and 4.

Interchangeability: The upper and lower cable assemblies of this headset-microphone shall be completely interchangeable between, and mate with, cable assemblies of another manufacturer's H-161F/GR. The bailout jack of the upper assembly shall mate mechanically and electrically with the bailout jack of the lower cable from another manufacturer. The upper cable assembly of the H-161F/GR shall mate mechanically with the lower cable assemblies of the DH-132 and DH-132A combat vehicle crewman helmets and shall be electrically interchangeable (there will be no ballistic, bump or attenuation protection) with the DH-132 and DH-132A helmets.

MIL-DTL-83511/4C  
w/AMENDMENT 1

Qualification. The activity responsible for qualification of products delivered in accordance with this specification sheet is Defense Supply Center Columbus (DSCC-VQP), 3990 East Broad Street, Columbus, Ohio 43218-3990 [vqp.do@dla.mil](mailto:vqp.do@dla.mil), or [vqp.go@dla.mil](mailto:vqp.go@dla.mil). Information pertaining to qualification of products may be obtained from that activity. Qualification of product on the basis of similarity may be considered at the discretion of the qualifying activity on a case by case basis.

Amendment notations. The margins of this specification sheet are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content, irrespective of the marginal notations.

Referenced documents. In addition to MIL-DTL-83511, this document references the following:

MIL-DTL-10392	Army drawing SM-B-933861
MIL-PRF-25670/5	Army drawing SM-D-436135
MIL-PRF-26542	Army drawing SM-D-937438
MIL-PRF-26542/10	Army drawing SCL-6608
MIL-I-3930	USAF drawing 67B1854
MS35059	

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5965-2012-019)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.