

INCH-POUND
MIL-DTL-83511/8A
w/AMENDMENT 2
10 May 2023
SUPERSEDING
MIL-DTL-83511/8A
w/AMENDMENT 1
19 September 2012

DETAIL SPECIFICATION SHEET

MICROPHONE HEADSET
H-182A/PT

This Specification is approved 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.

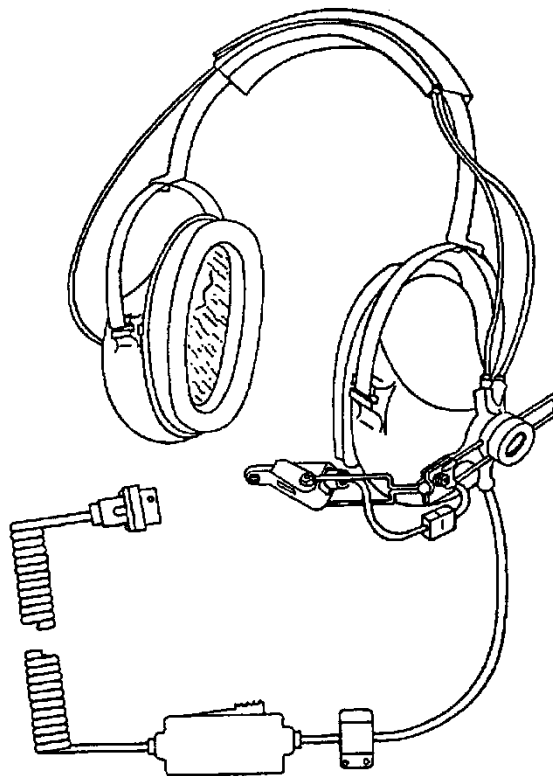


FIGURE 1. Microphone headset H182A/PT.



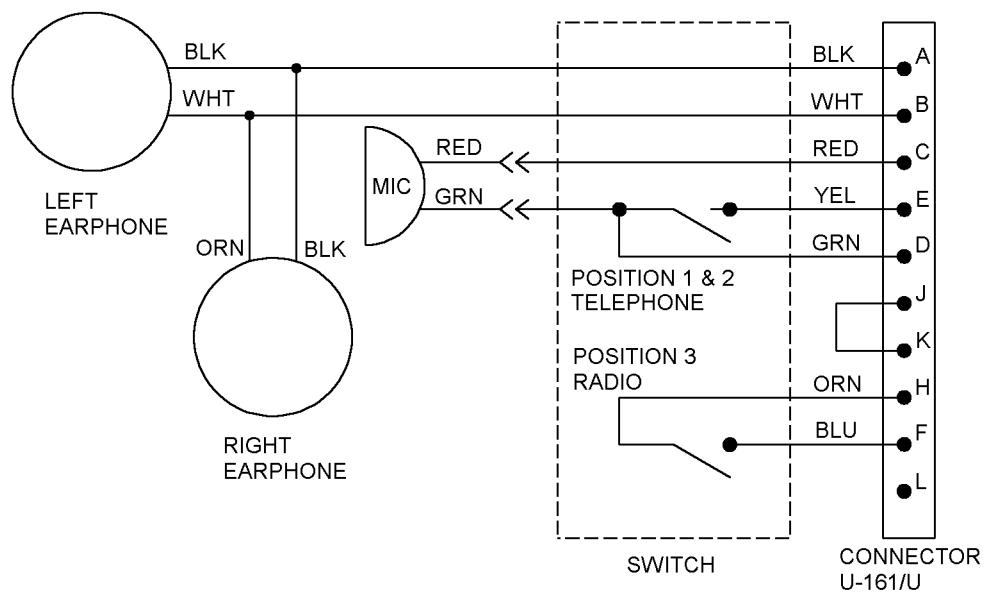


FIGURE 2. Wiring diagram for H-182A/PT.

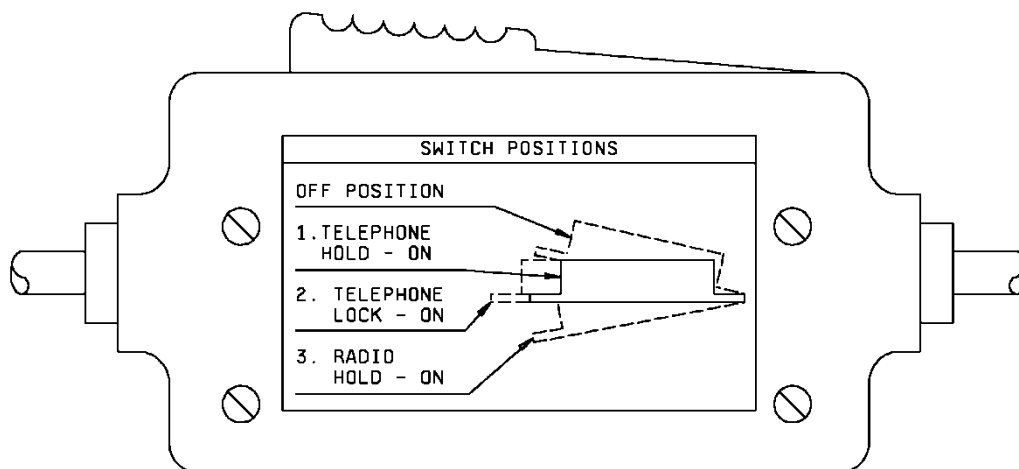


FIGURE 3. Switch.

REQUIREMENTS:

Interface: See figure 1. Figure 1 is for illustration purpose only and all referenced drawings and specifications cover design.

Earphone: Earphone dynamic in accordance with MIL-PRF-25670, except:

- a. Impedance - 300 ohms $\pm$ 20 percent.
- b. Waterproof to 3 feet of water.

Microphone:

"Gentex Corp" (CAGE 7L772): Electret Model 5075, Part Number N100107-01 or equal.

Sensitivity: -40 $\pm$ 3 dB re 1V/Pascal (300 ohms).

Supply voltage: 3 to 15 V dc.

Supply current: 6 $\pm$ 2 mA at 3 V dc, 15 mA maximum at 15 V dc.

Weight: 15 grams maximum.

Microphone boom: 1 required, USAF drawing 67B1854 or equal.

Cordage: In accordance with MIL-DTL-83511: Straight 4 conductor and retracted 7 conductor.

Schematic: See figure 2.

Switch: See figure 3, bar actuated in accordance with MIL-DTL-83511 and Army drawing SM-C-430302 or equal to "Astrocom Electronics Inc" (CAGE 18068) Part Number 10235A.

Clothes clip: Roanwell Corp. PIN 20860 or equal, as specified in MIL-DTL-83511. The clothes clip shall be of the alligator design, and be provided with corrugated rubber jaws. The pressure developed at the tip when the jaws are parallel to each other shall be from three to four pounds.

Test for clothes clip pressure: The pressure developed between the tips of the jaws, when parallel, shall be determined in any manner, and using any equipment, which is capable of effecting this measurement with no more than ten percent error.

Intended use: To be used with SB22 switchboard.

Supersession data: This headset is functionally interchangeable and replaces headset type H-182/PT.

Sand and dust: The microphone-headset in its normal operating configuration shall be placed in a test chamber, which has been vented to the atmosphere meeting the requirements of MIL-STD-202-110, sand and dust. The microphone-headset shall show no evidence of sand and dust penetration. The individual frequency response of the microphone and earphone taken after the test shall not exceed 3 dB degradation, from the respective frequency response taken before the test.

Immersion: The microphone-headset in its normal operating configuration shall be subjected to immersion for 2 hours in 3 feet of fresh water at room temperature. The microphone-headset shall show no evidence of leakage when tested.

Gunblast: Thirty (30) rounds with a minimum peak pressure of 9.5 psi as provided In accordance with Navy drawing SK-N-864.

Verification: For additional requirements to MIL-DTL-83511, see table I.

MIL-DTL-83511/8A
w/AMENDMENT 2

TABLE I. Parameter applicability.

Inspection	Number of samples	Qualification Inspection	Quality Assurance		
			Group A	Group B	Group C
<u>Group I</u> (Microphone)	3	X	X		
<u>Group II</u> (Earphones)	3	X	X		
<u>Group III</u> (Microphone-headset)	6				
Visual and mechanical		X	X		
Sound attenuation		X			
Talk		X	X		
Slide adjustment		X		X	
Strain relief		X		X	
Random drop		X		X	
Speech intelligibility		X			X
<u>Group IV</u>	3				
Sand and dust <u>1/</u>		X			X
Fungus		X			X
Vibration		X			X
Temperature		X			X
Temperature shock		X			X
Humidity		X			X
Shock		X			X
Salt fog		X			X
Immersion <u>1/</u>		X			X
Gunblast <u>1/</u>		X			X
<u>Group V</u> (Switch)	3				
Life		X			X
Actuator force		X		X	
Contact resistance		X		X	
(Cable)					
Flexing life		X			X

1/ This document.

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, or vqp.jw@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.

MIL-DTL-83511/8A
w/AMENDMENT 2

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

MIL-STD-202-110
MIL-PRF-25670
USAF drawing 67B1854
Navy drawing SK-N-864
Army drawing SM-C-430302

CONCLUDING MATERIAL

Custodians:
Army - CR
DLA - CC

Preparing activity:
DLA - CC

(Project 5965-2023-009)

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>.