

INCH-POUND
MIL-DTL-83511/8A
11 March 2004
SUPERSEDING
MIL-H-83511/8(CR)
11 October 1985

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.

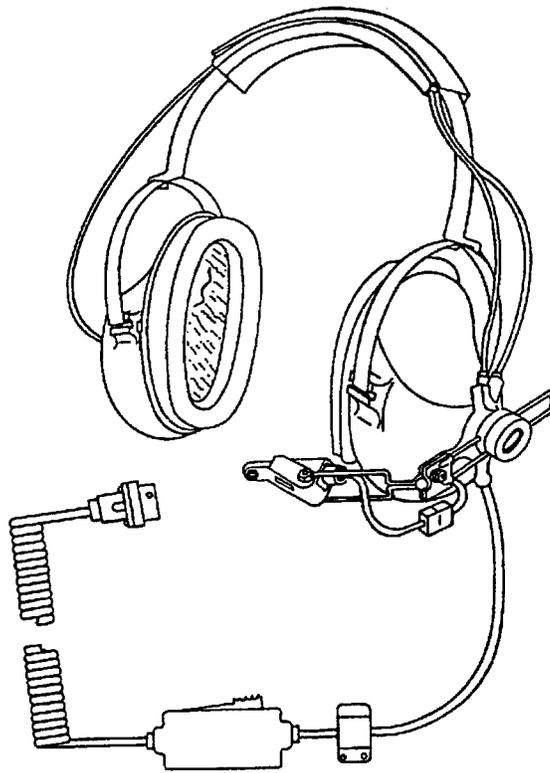


FIGURE 1. Microphone headset H182A/PT.

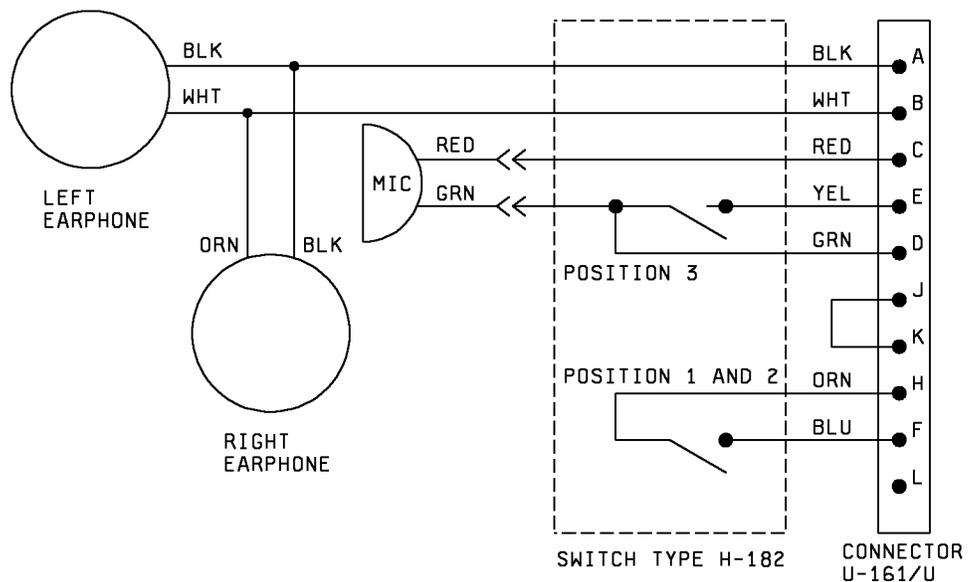


FIGURE 2. Wiring diagram for H-182A/PT.

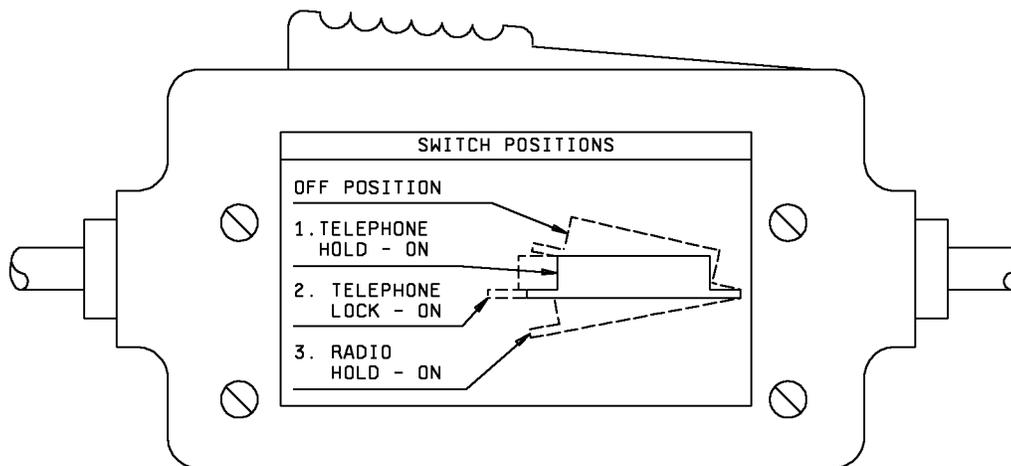


FIGURE 3. Switch.

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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%.
- b. Waterproof to 3 feet of water.

Microphone:

Gentex: Electret Model 5075, Part Number N100107-01 or equal.

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

Supply voltage: 3 to 15 Volts dc.

Supply current: 6 ± 2 ma at 3 Volts dc, 15 ma maximum at 15 Volts 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 P/N 10235A.

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, method 110, sand and dust. The microphone-headset shall show no evidence of sand and dust penetration and the individual frequency response of the microphone and earphone taken after the test shall not exceed 3 dB degradation from 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.

Blast: 30 rounds with a minimum peak pressure of 9.5 psi as provided In accordance with drawing SK-N-864.

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

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.

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Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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

MIL-STD-202
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:
Army - CR

Agent:
DLA - CC

(Project 5965-0353-000)

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 <http://www.dodssp.daps.mil>.