



### General Description

The Telex Airman 850 is a lightweight general aviation headset complete with boom-mounted, noise-canceling electret microphone.

Lightweight design with soft, pliable cushions, adjustable headband, extended frequency drivers, and noise canceling electret microphone result in a comfortable headset providing the ultimate in clear, understandable communications.

The Airman 850 headset with boom microphone is approved for aircraft use under FAA TSO's C57a and C58a. See back page for information.

### Headset Operation

1. Connect the headset via Microphone and Receiver plugs
2. Rotate the entire boom overhead to wear the microphone on either the right or the left side of the head (note the two stops on the boom housing).
3. With the Airman 850 resting securely on top of the head, check that the earphone housings are centered over the ears. Maximum performance depends on the proper fit of the headset.
4. Position the microphone as close to the mouth as possible and speak in a normal voice.

When required, the user may increase headphone level by moving the volume "HI/LOW" switch to the "HI" position. The "LOW" position is considered normal. The Airman 850 should function properly with most avionics equipment when used in the "low" position.

### Ordering Information

Single Sided Airman 850 .....	301317-200
Double Sided Airman 850 .....	301317-100
Replacement Ear cushions .....	800456-020
Replacement Windscreen .....	800456-019
Replacement Clothing Clip .....	590637-000

Check out our website - [www.telex.com/aircraft](http://www.telex.com/aircraft)  
for a dealer near you or call toll free 1-877-863-4168

### Specifications

#### Receivers:

Type: Dynamic

Impedance: 150 ohms  $\pm 20\%$

*Note - Damage could occur to avionics equipment by the use of this headset if the equipment was manufactured for use with 600 ohm headsets only. If in doubt, consult the avionics equipment manufacturer.*

Freq. Response: 350-15000 Hz

Sensitivity: Volume selector in "Low" 90 dB  $\pm 5$ dB (1 kHz, 1mW input)

#### Microphone:

Type: Noise-canceling amplified electret

Matching Impedance: 50-600 ohms

Freq. Response: 300-6000 Hz (RTCA DO-214)

Sensitivity:  $-51 \pm 3$  dB (ref: 1V/ubar@1kHz, 12VDC, 470ohm DC / 150 ohm AC load)

Operating Voltage: 8-28 Vdc (470 ohm load)

#### Plug Type:

Microphone: PJ-068 or equivalent

Receiver: PJ-055 or equivalent

#### Gross Weight:

2.85 oz. (80.7 g) without cord

#### Cord Length:

5.5' (1.7m)

#### Color:

Black

#### Controls:

Volume "Hi/Low" Switch

## FAA Technical Standard Order

The Telex Airman 850 headset including boom microphone is FAA TSO C57a and C58a approved. Tests were conducted using RTCA DO-214 and RTCA DO-160D. The headset was designed and is manufactured to meet the following environmental categories.

The conditions and tests required for the TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles may have separate approval for installation on aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.

CONDITIONS	DO-160D SECTION #	DESCRIPTION OF TESTS CONDUCTED
TEMPERATURE AND ALTITUDE	4.0	EQUIPMENT TESTED TO CATEGORIES A1, B1, AND C1
LOW TEMPERATURE	4.5.1	NO TEST REQUIRED
HIGH TEMPERATURE	4.5.2 & 4.5.3	
LOSS OF COOLING	4.5.4	
ALTITUDE	4.6.1	
DECOMPRESSION	4.6.2	
OVERPRESSURE	4.6.3	
TEMPERATURE VARIATION	5	EQUIPMENT TESTED TO CATEGORY B
HUMIDITY	6	EQUIPMENT TESTED TO CATEGORY A
OPERATIONAL SHOCK AND CRASH SAFETY	7	NO TEST REQUIRED
VIBRATION	8	EQUIPMENT TESTED TO TYPE 2, CATEGORY S, ZONE 2, CURVE B
EXPLOSION	9	NO TEST REQUIRED
WATERPROOFNESS	10	NO TEST REQUIRED
FLUIDS SUSCEPTIBILITY	11	NO TEST REQUIRED
SAND AND DUST	12	NO TEST REQUIRED
FUNGUS	13	NO TEST REQUIRED
SALT SPRAY	14	NO TEST REQUIRED
MAGNETIC EFFECTS	15	EQUIPMENT TESTED TO CATEGORY Z
POWER INPUT	16	NO TEST REQUIRED
VOLTAGE SPIKE	17	EQUIPMENT TESTED TO CATEGORY A
AUDIO FREQUENCY SUSCEPTIBILITY	18	NO TEST REQUIRED
INDUCED SIGNAL SUSCEPTIBILITY	19	EQUIPMENT TESTED TO CATEGORY A
RADIO FREQUENCY SUSCEPTIBILITY	20	EQUIPMENT TESTED TO CATEGORY S
RADIO FREQUENCY EMISSION	21	EQUIPMENT TESTED TO CATEGORY B
LIGHTNING INDUCED TRANSIENT SUSCEPTIBILITY	22	NO TEST REQUIRED
LIGHTNING DIRECT EFFECTS	23	NO TEST REQUIRED
ICING	24	NO TEST REQUIRED
ELECTROSTATIC DISCHARGE	25	NO TEST REQUIRED

This device complies with part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



# TELEX®

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