MASK SPECIFICATIONS

Model 4110-712	-1 (Small), -2 (Medium), -3 (Large)
Weight	10.43 oz (295.69)
Material	Silicone, Alum *(Black Anodized)*
Certified Maximum Altitude	25,000 Feet
Communications	Electret Microphone/Acoustic Foam
Communications Plug	PJ068
Service Overhaul	3 Years From Date Of Manufacture
Oxygen System Requirements	
Breathing Oxygen	Aviators O2 Per MIL-PRF-27210
Minimum Oxygen Flow	2.5 Liters Per Minute (NTPD)
Ambient Temperature	70° F (21° C)
Ambient Pressure	14.7 psia (101kPa)
Operating Temperature Range	+20° F To 120° F (-7° C To 49° C)
Relative Humidity	5% To 95%
Storage Temperature	
Normal	-20°F To +120° F (-29° C To +49° C)
Extreme	-67°F To +160° F (-55° C To +71° C)

Installation and Application

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

Normative Reference Information

aerox® continuous flow oxygen masks meet the requirements of TSO-C103 and the following tailored reference documentation;

SAE 1224 Rev. B
NAS 1179
RTCA DO-178
FAR 21.603
FAR 45.15

RETAIN THESE INSTRUCTIONS
DO NOT DISCARD

OPERATING INSTRUCTIONS AND EQUIPMENT LIMITATIONS FOR

aerox®

SHAW AEROX LLC

4110-712 SERIES
FAA TSO-C103 APPROVED

RESTRICTIVE PHASE DILUTION RE-BREATHER CONTINUOUS FLOW AVIATION OXYGEN MASK WITH ELECTRET MICROPHONE

IMPORTANT WARNING!

- **READ ALL INSTRUCTIONS AND EQUIPMENT LIMITATIONS PRIOR TO USE.**
- **IMPROPER USE OF THIS OXYGEN MASK MAY RESULT IN SERIOUS INJURY, ILLNESS OR DEATH.**
- **DO NOT USE THIS MASK UNLESS YOU ARE CLEAN SHAVEN. BEARDS, STUBBLE OR SIDEBURNS WILL PREVENT AN ACCEPTABLE FACE PIECE SEAL. FACIAL HAIR MAY INTERFERE WITH THE RESTRICTIVE PHASE DILUTION FUNCTION.**
- **ABSENCE OF ONE OR BOTH DENTURES CAN SERIOUSLY AFFECT THE FIT OF THIS OXYGEN MASK.**
- **DO NOT ALTER OR MODIFY ANY COMPONENT OF THIS OXYGEN MASK.**
- **DISCONTINUE USE IF YOU EXPERIENCE SKIN IRRITATION OR DISCOLORATION.**
- **THIS MASK IS INTENDED FOR USE IN THE AVIATION INDUSTRY FOR PILOT AND CREW AFTER RECEIVING PROPER INSTRUCTIONS AND TRAINING.**
- **USERS MUST INSPECT AND CLEAN THIS OXYGEN MASK IN ACCORDANCE WITH THE INSTRUCTIONS CONTAINED IN THIS MANUAL.**
- **DO NOT EXPOSE THIS OXYGEN MASK TO ANY PETROLEUM BASED PRODUCTS (i.e. LIPSTICK, LIP BALM, LIP GLOSS AND VASELINE) USE OF THESE PRODUCTS IN AN OXYGEN RICH ENVIRONMENT PRESENTS A SERIOUS FIRE HAZARD.**

DESCRIPTION

The 4110-712 Series continuous flow oxygen mask with microphone is intended for use of crew and passengers in the general aviation industry at a maximum altitude of 25,000 feet. These masks have been FAA approved and manufactured in accordance with the provisions of TSO-C103. Optional equipment includes industry standard fitting for connection to portable and built-in oxygen system equipment.

OXYGEN SYSTEM REQUIREMENTS

Use aerox® Aviation Oxygen Systems flowmeter (optional) to adjust the flow rate to coincide with the aircraft altitude. A minimum oxygen flow of 2.5 liters per minute (NTPD) must be supplied. It is the responsibility of the user to assure that the oxygen system being used is capable of supplying the pressure required to maintain the proper flow rate. This mask is equipped with a hose bushing allowing for the insertion of a barbed component. The user is responsible for the selection and installation of the proper components to achieve an oxygen flow of 2.5 LPM during use. (Reference FAR 23.1441)

STOWAGE

The aerox® continuous flow oxygen mask should be stored in an easily accessible area for quick donning. The storage area must protect the mask from damage or contamination. Avoid stowing the mask in an area that is subject to sunlight or temperature extremes.

SERVICING

The 4110-712 Series oxygen mask shall be serviced only at aerox® Aviation Oxygen Systems or at an authorized service center. Contact aerox® for the nearest authorized service center. Service is required 3 years from date of manufacture or 3 years from last overhaul.

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OPERATION

Position the bottom of the mask as low as possible under the chin while positioning the narrow portion of the mask on the bridge of the nose. Position the cradle headband above the ears so that it straddles the crown of the head.

Hook the lower headband straps below the ears and around the back of the neck. Adjust the upper headband by pulling both straps at the same time. Adjust the lower headband straps in the same manner.

WARNING

ALL PERSONNEL USING THIS EQUIPMENT MUST HAVE A THOROUGH KNOWLEDGE OF WHEN SUPPLEMENTAL OXYGEN IS REQUIRED AND AN UNDERSTANDING OF THE INTENT, PERFORMANCE AND USAGE OF CONTINUOUS FLOW OXYGEN MASKS.

ALWAYS CONFIRM THE CONTINUOUS FLOW OF OXYGEN TO THE MASK WITH AN IN-LINE FLOW METER OR FLOW INDICATOR.

- This mask must be inspected prior to flight.
- Specifically inspect the re-breather bag for deterioration (cracks or tears) and for contamination.
- Visually inspect all support straps for breaks, tears, loss of elasticity, broken or malfunctioning buckles.
- Inspect the head harness for serrations or cuts to the bands that could cause slippage.
- Remove the mask from service if any of these conditions exist.

CLEANING

Use warm soapy water and a lint free cloth to wipe the exterior and interior of the mask. Do not use water heated above 140° F (60° C). Keep the microphone foam windscreen dry. Sanitize the mask by hanging in a ventilated area and spray a fine mist of 3% hydrogen peroxide over the interior of the mask shell. Allow to air dry completely.