AVOX 358 Hybrid Full - Face Crew Oxygen Mask

FAA and U.S Air Force Approved

AVOX Systems Inc.
Chris Miller (716-686-1716)
(christopher.miller@zodiacaerospace.com)
Primary reason for a new oxygen mask system:
The legacy 358 crew oxygen mask is designed to be worn with a separate smoke
goggle. The separate smoke goggles often require two handed donning, resulting
in donning times in excess of 5 seconds. This results in safety concerns and
performance issues.
AVOX has developed and tested the 358 Hybrid (358H) Full–Face oxygen mask to address these concerns. The proven legacy valve, hose, communications and harness assembly have been combined with a COTS Full–Face smoke mask resulting in fully integrated oxygen and smoke protection system.

Legacy 358 mask

New 358 Hybrid Full–Face mask
358 Hybrid Full – Face mask features

- Harness adjustment strap
- 358 suspension assembly
- Full – Face mask with integrated smoke goggle
- New 358 Hybrid Full - Face mask
- 358 valve, hose, communications assembly
AVOX 358 Hybrid integrates with all existing 358 platforms

(C-130’s, C-17, C-5, E-3, KC-135, KC-10 )
358Hybrid Full - Face upgrade Kit (358HK)

Legacy 358 mask + 358HK Full - Face upgrade kit = 358Hybrid Full - Face crew oxygen mask
A dust cover is included which protects the oral nasal mask as well as the entire smoke goggle and lens from dust, dirt and abrasion.
358 Hybrid Approvals

• FAA Technical Service Order (TSO) C-78  
  – (8/7/09)

• FAA Technical Service Order (TSO) C-99  
  – (8/7/09)

• Air Force Approved Engineering Change Proposal (ECP)  
  – (8/10/10)
AVOX has performed extensive (DVT) in addition to the testing required by the applicable FAA, TSO and SAE specification.

**DVT Testing**
- Safety
- Communications
- Design and construction
- Valve performance
- Mask Oxygen Hose connection
- Reliability
- Maintainability
- Sanitation
- Flammability
- Environmental consideration
- Human Factors engineering
- Performance requirements
- Aircraft Integration
358 Hybrid replaces the AVOX Smoke Mask

The integration of a smoke goggle with the oxygen mask on the 358 Hybrid allows for a replacement of the legacy smoke mask. This consolidation of products further reduces the cost of logistics, maintenance, spare parts and inventory.
## Part and NSN Numbers

The legacy 358 Part numbers translate to the new 358 Hybrid part numbers as follows:

<table>
<thead>
<tr>
<th>Legacy 358 Mask P/ N</th>
<th>New 358H Full – Face mask P/N</th>
<th>NSN Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>358-1506V-1</td>
<td>358-1506V-4</td>
<td>43655 1660 NCC996838</td>
</tr>
<tr>
<td>358-1506V-2</td>
<td>358-1506V-5</td>
<td>43655 1660 NCC996839</td>
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<tr>
<td>Upgrade kit for 358-1506V-1</td>
<td>358-1554-1</td>
<td>43655 1660 NCC996840 (Retro Fit Kit)</td>
</tr>
<tr>
<td>Upgrade kit for 358-1506V-2</td>
<td>358-1554-2</td>
<td>43655 1660 NCC996841 (Retro Fit Kit)</td>
</tr>
</tbody>
</table>
358Hybrid Full – Face Mask Features and Advantages

- The system requires no aircraft modifications, new maintenance requirements or special tools.
- Training for the aircrew and aircrew life support technicians on the 358 Hybrid mask and upgrade kit is minimal.
- By integrating the smoke mask the maintenance requirements for the 358 Hybrid are reduced.
- The integrated smoke goggle includes a replaceable lens providing improved field of view, optics, ballistics protection, fogging resistance, scratch resistance, fit and comfort.
• The AVOX 358 Hybrid Full – Face oxygen mask addresses the need for single handed donning in less than 5 seconds by integrating the smoke goggle with the oxygen mask.

• The 358 HK upgrade kit maintains many of the product and spares already in inventory. This achieves new performance objectives and reduces cost by utilizing the valve, hose, communications assemble and harness from the legacy 358.

• The combination of oxygen and smoke protection into one product further reduces logistics and spare parts cost by consolidating the legacy 358 and the smoke mask into one product.
New 358 Hybrid Full – Face Crew Oxygen and Smoke mask
Contact for Literature and Quotations

Thomas B. Harmon
Director of Marketing and Customer Relations
225 Erie Street - Lancaster, NY 14086 – USA
Tel: 716-686-1551        Cell: 716-510-7995
Thomas.Harmon@zodiacaerospace.com
http://www.zodiacaerospace.com