

# T E C H N I C A L B U L L E T I N

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**#9** October, 1982

## **960618 POPPET L.P. (WHITE) AND 960610 POPPET H.P. (BLACK)**

This product update involves installation of an improved poppet in the SURVIVAIR audio alarm bell.

This update should be carried out on all audio alarm bells used on MSHA/NIOSH approved 30 and 60 minute SCBA, including the following units:

S-30	Mark-1
XL-30	XL-60

After installation of the new poppet, the audio alarm must be functionally tested to ensure that the alarm bell begins ringing within the required pressure range:

**HIGH PRESSURE ALARMS** – Used on all Mark-1 and XL-60 SCBA – must begin ringing between 900 and 1125 PSIG.

**LOW PRESSURE ALARMS** – Used on S-30 and XL-30 SCBA – must begin ringing between 440 to 550 PSIG.

### **INSTRUCTIONS TO CHANGE POPPET**

#### **PROCEDURE:**

1. Using a 5/32 inch allen wrench, unscrew and remove the two socket-head screws securing the chrome bell to the audio alarm body.
2. Using a large crescent wrench, unscrew and remove the alarm body from the alarm connector. Lift out the spring, shim(s) (if present), and the brass poppet.
3. Install the new polymer poppet, along with the original shim(s) and spring. Using a torque wrench, tighten the alarm body. Install the bell and secure with the two socket-head screws, tighten firmly.

4. Ensure that the alarm bell is property attached to the regulator, and connect the alarm bell to the fully charged air cylinder. Make sure the BYPASS valve on the regulator is closed, and that the regulator mode selector lever is on "DON" position.

\*\* **UPDATE** – Any alarm containing a brass poppet must be completely overhauled as recommended by current SURVIVAIR instructions.

5. SLOWLY open the cylinder valve until full cylinder pressure is indicated on the regulator pressure gauge. Close the cylinder valve fully.
6. VERY SLOWLY crack the regulator BYPASS valve while watching the regulator pressure gauge. The alarm bell MUST BEGIN RINGING within the range listed previously for the appropriate high and low pressure alarm bell.
7. If the audio alarm begins ringing OUTSIDE of the specified limits, adjust as follows:

If the alarm begins ringing at TOO HIGH a pressure, remove shim(s) as required and retest.

If the audio alarm begins ringing at TOO LOW a pressure, ADD shim(s) as required and retest.

Adjustment shims are available in two thicknesses to allow fine adjustment of actuating pressure:

9605-17 Brass shim .018 thick  
9605-23 Stainless steel shim .005 thick

Various combinations of shims may be used to achieve the required actuation pressure.

*9606 & 9607 SERIES AUDIBLE ALARM*

