

# TECHNICAL BULLETIN

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**#115** July 27, 2001

## **ADAM<sup>®</sup> REPAIR COST AND GAUGE LINE TORQUE PROCEDURE**

Products Affected: ADAM, P/N 962427, 962428, 962433

This technical bulletin provides information regarding the cost of repairing an ADAM digital gauge that has been damaged due to improper installation. This technical bulletin also specifies the proper installation techniques necessary to correctly install the ADAM digital gauge onto the gauge line.

**ADAM repair cost:** The list price for repair of an ADAM digital gauge that has been damaged due to improper field installation is \$50.00. Damaged ADAM units must be returned to Survivair to receive this price. Returned ADAM units must include: the ADAM unit, ADAM boot, battery door and both screws, and both function buttons and retaining rings. The replacement ADAMs are refurbished units. These units will carry the balance of the original ADAM warranty. This repair price is only good for ADAM units damaged due to improper field installation; all other repairs will need to be returned to Survivair to receive a quote. You must call Survivair Customer Service for an RMA number prior to returning products for repair.

**ADAM Gauge Line Torque Procedure:** Survivair has received reports of the ADAM digital gauge being damaged during installation onto the gauge line. The following information and procedure are necessary to properly install the ADAM onto the gauge line.

**\*\*\*\*\*WARNING\*\*\*\*\***

**Remove the SCBA from service and vent all air from the system prior to working on the ADAM.**

Battery installation instructions, if required:

1. Remove the ADAM and the 9-volt battery from its packaging if necessary.
2. Flip open the silicone battery hatch cover on the back of the ADAM.
3. Unscrew the two battery compartment screws with a standard flat blade screwdriver and remove the plastic battery hatch cover.

**CAUTION**

**The battery terminals will only fit in one direction. Refer to the battery orientation label in the bottom of the battery compartment for proper installation. DO NOT FORCE THE BATTERY INTO THE BATTERY COMPARTMENT.**

4. Place the 9-volt battery into the battery compartment.

**CAUTION**

**Over-tight battery screws may warp the plastic cover and could cause premature failure of this device.**

5. Reinstall the battery hatch cover and tighten the screws. DO NOT OVER-TORQUE.
6. Flip the silicone cover back over the battery compartment and align the edge of the cover underneath the ADAM boot. Ensure the cover is secure.

ADAM installation and gauge line torque procedure:

1. Inspect and lubricate the air spool o-rings with Christolube. Replace o-rings, if necessary.
2. Insert the air spool into the ADAM hose fitting.

**CAUTION**

**Do not allow Loctite 242 to come in contact with the o-rings.**

3. Cover half the threads of the ADAM hose fitting with a small drop of Loctite 242.
4. Connect the hose nut swivel fitting to the ADAM hose fitting.

**CAUTION**

**Do not over-torque the hose fitting. Damage to the ADAM housing, hose fitting, or pressure transducer could result. Insure that the ADAM is held by the wrench flats while torque is being applied. Never apply torque to the ADAM case. Only apply torque between the 11/16" nut face and the 9/16" swivel nut.**

5. Using 9/16" and 11/16" wrenches, torque the swivel fitting nut to 40 +/- 5in-lb.
6. Leak test the connection using a liquid leak detector, such as soapy water, prior to returning the unit to service.
7. Re-install the gauge line onto the SCBA backpack, if necessary.

For functional testing procedures refer to the ADAM Operation Instructions supplied with the SCBA or contact Survivair Customer Service for a copy of the instructions.