

SERVICE INSTRUCTIONS  
MST MODEL 8023301-(XX)  
ELECTRONIC LOW PRESSURE WARNING SYSTEM

The MST Model 8023301 Electronic Low Pressure Warning System is designed to alert users of MST's Breathing Air Purification Systems that the incoming air pressure has decreased below a specified minimum value (to be determined according to customer's requirements).

The system consists of a miniature pressure switch connected to a battery operated external remote alarm.

The pressure switch is factory preset to the pressure designated in the model number (eg. 8023301-85 would indicate that the external alarm would be activated when the inlet pressure falls below 85 PSIG).

The general operation of Model 8023301 Electronic Low Pressure Warning System is as follows: When the inlet pressure to the MST Filtration and/or Purification System falls below the preset level specified in the model number, the pressure switch connects the internal 9 volt transistor battery to the remote external alarm (rated at 119 dB(A)). Until the pressure in the system exceeds the preset level, the alarm will continue to operate (battery life will be greatly reduced if this condition is allowed to persist longer than a few minutes).

To properly operate the system, it is recommended that prior to pressurizing system, the remote alarm is plugged into Model 8023301 Low Pressure Warning System to verify that the battery in the system is operational (to replace battery-see below). After this initial test, the air pressure should then be applied to the MST Filtration and/or Purification System. When full pressure is reached, plug the remote alarm into the Low Pressure Alarm System. The system should now be fully operational, and whenever the inlet pressure falls below the specified value, the remote alarm will activate.

ALARM BATTERY REPLACEMENT  
(SEE FIGURE NO. 1)

To replace the battery in the MST 8023301-(XX) Low Pressure Warning System, carefully remove the front cover from the main body of alarm system (NOTE: front cover held onto main body by (4) pressure points located on either side of main body). CAUTION: DO NOT ATTEMPT TO TURN OR PLACE ANY EXCESS FORCE ON THE LOW PRESSURE WARNING SYSTEM. ATTEMPTING TO TWIST THE HOUSING COULD POSSIBLY DAMAGE THE INTERIOR COMPONENTS!

In removing cover assembly, make sure not to place any excess strain on the internal wiring. Remove the internal battery and replace with a new battery of equivalent type. Place the cover over the main alarm housing assembly being careful not to cut or pinch any of the wires, and slide in place. Test the system as noted previously (plug remote alarm system into unit without any pressure applied). Should the system fail to operate, check that a fresh battery was installed correctly, and all wires are intact. Contact your local distributor, or MST if you have any problems or cannot get the system to operate properly after performing the above checks.

The battery in this system should be replaced annually, unless frequent alarming has occurred. Always test warning system prior to use to assure that the system is operating properly.

### GENERAL SPECIFICATIONS

STANDARD LOW PRESSURE ALARM SETTING:	PER MODEL DESIGNATION
THIS UNIT MODEL DESIGNATION:	8023301-_____PSIG (+/-2PSIG)
POWER REQUIREMENTS:	INTERNAL 9 VOLT TRANSISTOR (EVEREADY NO. 522 OR EQUAL)
OPERATING TEMPERATURE:	14° TO 122°F (-10° TO 50°C)

**BE CAREFUL WHEN  
REMOVING FRONT COVER-  
WIRES ARE CONNECTING  
COVER TO MAIN  
HOUSING:**

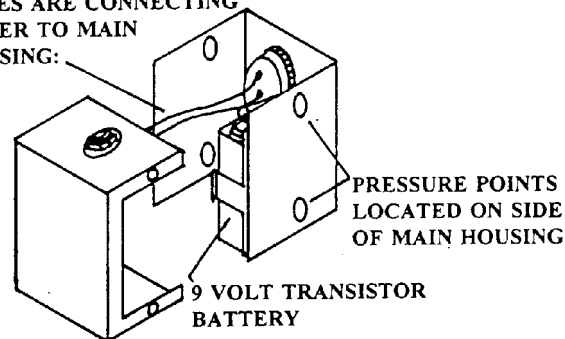


FIGURE NO.1

**MST, INC. SHALL NOT BE LIABLE FOR ANY INJURY, LOSS, OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT TO THE USE OF OR THE INABILITY TO USE THIS PRODUCT, BEYOND THE REPLACEMENT OF DEFECTIVE MATERIALS OR WORKMANSHIP. USERS OF SUPPLIED AIR RESPIRATORS SHOULD EVALUATE THEIR OWN PARTICULAR APPLICATION AND PERFORM THEIR OWN TEST FOR AIR QUALITY AND/OR QUANTITY TO DETERMINE THE SUITABILITY FOR USE OF THIS PRODUCT.**

For further information or questions about service or maintenance car of this device, contact your local distributor, or MST, Inc. at (800) 542-6646.

**NOTE: MST® RESERVES THE RIGHT TO CHANGE OR MODIFY SPECIFICATIONS AND/OR PRODUCTS.**