



# SOTR LITE

Special Operations Tactical Respirator

## OPERATOR'S MANUAL



## For Individual Respiratory Protection

This product is covered by one or more patents.  
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G055-1050-01 REV-A

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# INTRODUCTION

## ABOUT YOUR SOTR LITE

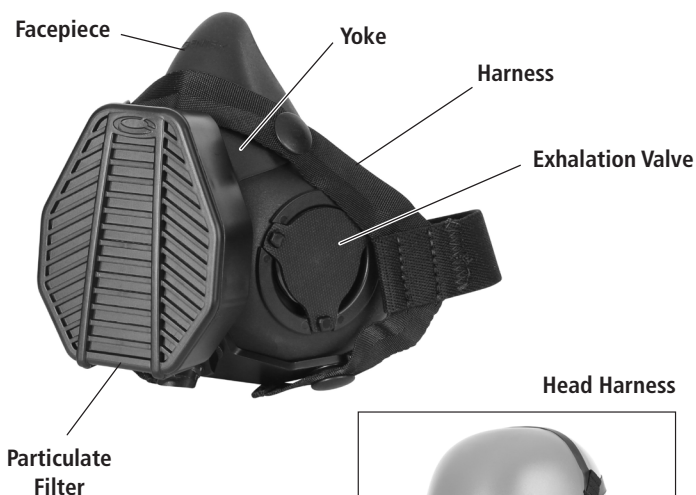
The Ops-Core Special Operations Tactical Respirator (SOTR) Lite is a half-mask respirator designed to provide protection against a wide range of oil and non-oil based particulate contaminants encountered by Special Operations forces during training and in operational environments. The SOTR Lite offers 99.97% filtration efficiency against airborne particulates including lead, asbestos, lubricant mist, and explosive gunfire residue.

## SOTR VERSION

SOTR Lite without microphone and communications cable, head harness only: G055-1000-05

## SOTR LITE KIT INCLUDES

(1) SOTR Lite, (1) Particulate Filter, (1) Head Harness



Head Harness



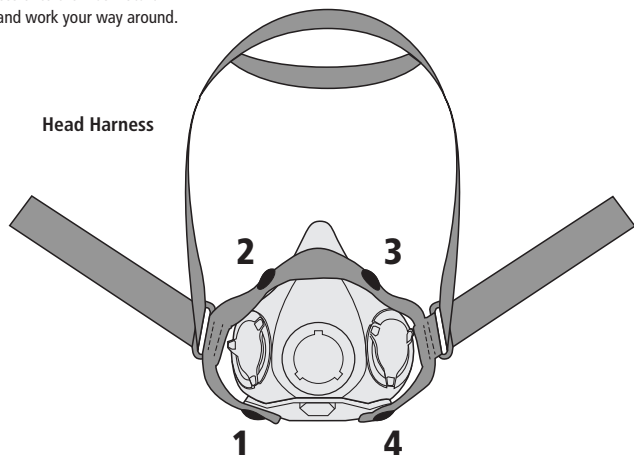
# HARNESS SETUP

## HARNESS CONFIGURATIONS

The SOTR Lite comes with a Head Harness. Other harnesses are available (sold separately).

### 1 TO ATTACH HARNESS

Snap the harness onto the mask. Start with one end and work your way around.



### 2 TO REMOVE HARNESS

Unsnap the harness from the mask. The snaps are tight at first but break in quickly.



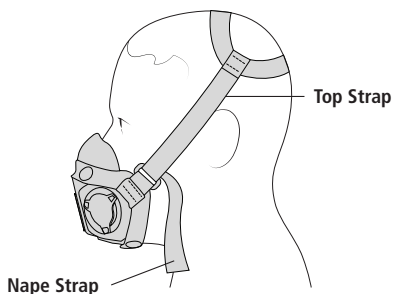
# FITTING

## HEAD HARNESS CONFIGURATION

The head harness attaches to the head with support straps and Velcro.

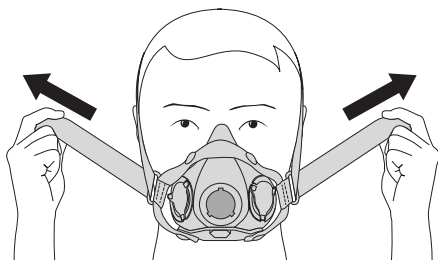
### 1 POSITION STRAP ON HEAD

Separate Velcro nape strap and place top strap on crown of head.



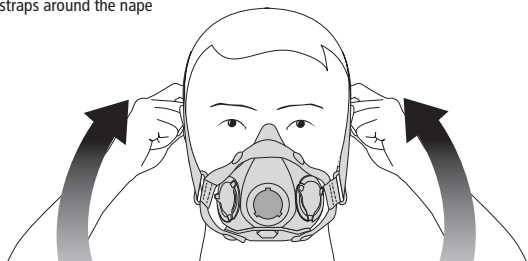
### 2 POSITION SOTR ON FACE

While letting the SOTR Lite hang, position the mask on your face and grab the nape straps as shown.



### 3 PULL STRAPS AROUND HEAD

Uniformly pull the Velcro nape straps around the nape of your neck.

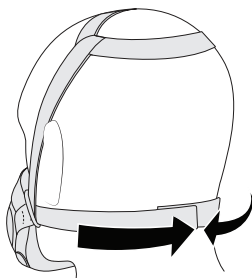


# FITTING

## 4 SECURE VELCRO NAPE STRAPS

Secure Velcro nape straps to each other as shown.

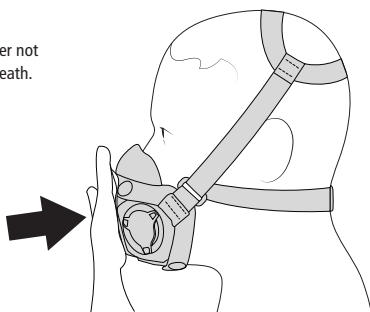
**CAUTION:** Over-tightening mask can cause discomfort and/or leakage.



## 5 CHECK FACE SEAL

Check seal by plugging inhalation opening (filter not installed yet) and attempting to take a deep breath. Mask should collapse uniformly on face.

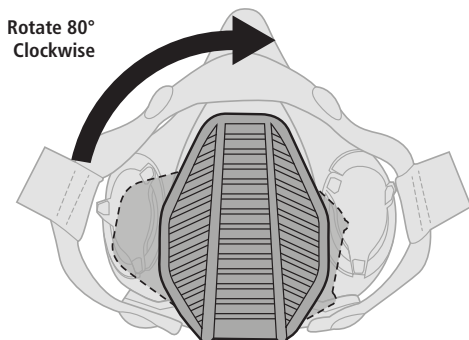
If necessary, adjust placement of SOTR Lite and/or Velcro nape straps accordingly to ensure seal (repeat steps 1-5).



# FILTER INSTALLATION

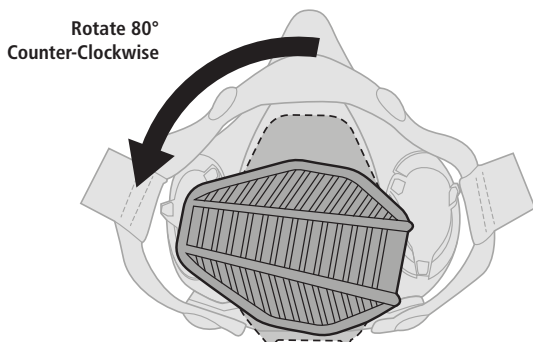
## FILTER INSTALLATION

To install the filter, align the tabs to the corresponding slot openings on the back of the filter and rotate the filter 80° clockwise until the filter is in the vertical position.



## FILTER REMOVAL

To remove, rotate the filter 80° counter-clockwise and then pull the filter away from the mask.



# MAINTENANCE SCHEDULE

## SOTR LITE MASK MAINTENANCE SCHEDULE

- 1 Clean the mask with 70% isopropyl alcohol and let dry.
- 2 Check that the snaps are in working condition.
- 3 Clean the Velcro of dust and dirt by using pressurized air.
- 4 Visually check the snaps, exhalation valves, inhalation valve, and filter gasket for signs of damage.
- 5 Visually check the SOTR Lite facepiece for any signs of damage.
- 6 Check that both harnesses work properly and do not have any damage.
- 7 Visually check the microphone and conduct operational checks of the microphone.

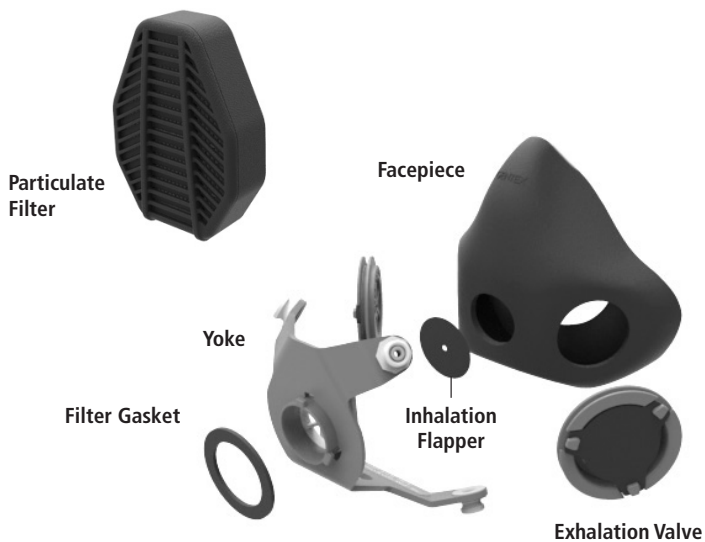
**NOTE:** If any defects are found, the damaged components should be replaced before use.

## SOTR FILTER MAINTENANCE SCHEDULE

- 1 Always start your training or operation with a new filter.
- 2 Once the filter becomes difficult to breathe through, discard the filter\* and replace with a new one.
- 3 Visually check the filter gasket on the front of the yoke for any signs of damage.
- 4 Replace the filter gasket after 50 filter changes (or earlier if damage is observed).

**NOTE:** \*Dispose of the filter according to your unit's recommendation. The filter will contain hazardous elements and must be disposed of accordingly. Local, state, and/or federal disposal regulations may apply.

## REPLACEMENT PARTS



Head Harness





## REPLACEMENT PARTS

Part Name	Part Number	Qty Needed per Mask
SOTR Lite	G055-1000-05	1
P100 Particulate filter	G055-1005-02	1
Head harness	G055-1024-02	1
Exhalation valve	G055-1023-01	2
Inhalation flapper	G055-1033-01	1
Filter gasket	G055-1004-01	1
Yoke assembly	G055-1003-02	1
Non-communications facepiece	G055-1014-02	1

## OPERATOR NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## WARRANTY

Unless an individual product is covered by a separately issued warranty, Gentex warrants that all ballistic helmet shells will be free from defects in material or workmanship under normal use and service for a period of five (5) years from the date of delivery. Unless an individual product is covered by a separately issued warranty, Gentex warrants that all helmet components, accessories, peripherals, and parts will be free from defects in material or workmanship under normal use and service for a period one (1) year from the date of delivery. All repair covered by this warranty shall be performed at Gentex's factory, or other such warranty repair facilities of Gentex as designated by Gentex unless Gentex specifically directs that repair services be performed at another location. Any defect corrected and found to be within this scope of the warranty will be repaired by Gentex and all charges for labor and material will be borne by Gentex. If it is determined that either no fault exists in Gentex, or the damage to be repaired was caused by negligence of the user, its agents, employees or customers, you agree to pay all charges associated with each such repair. No statement, recommendation or assistance made or offered by Gentex through its representatives to the user, its agents, employees, or customers in connection with the purpose or intended use of any Gentex's product shall be or constitute a waiver by Gentex of any of the provisions of this warranty or change Gentex's liability under this warranty.

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