



# SOTR

Special Operations Tactical Respirator

**OPERATOR'S MANUAL**



**FOR INDIVIDUAL RESPIRATORY PROTECTION**

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# INTRODUCTION

## ABOUT YOUR SOTR

The Ops-Core Special Operations Tactical Respirator (SOTR) 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 Ops-Core SOTR offers 99.97% filtration efficiency against airborne particulates including lead, asbestos, lubricant mist, and explosive gunfire residue.

## SOTR VERSIONS:

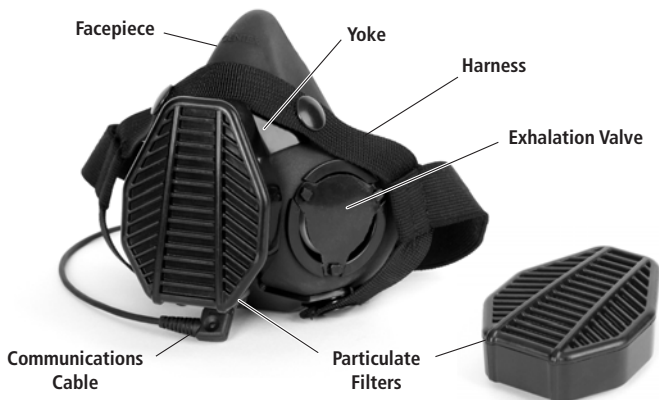
SOTR with microphone and communications cable G055-1000-01

SOTR without microphone and communications cable G055-1000-03

## SOTR KIT INCLUDES:

(1) SOTR, (2) Particulate Filters, (1) Head Harness, (1) Helmet Harness, (1) Communications Cable\*, (1) Microphone\*

*\*Communications Cable and Microphone are only included with the Microphone Version.*



Head Harness



Helmet Harness

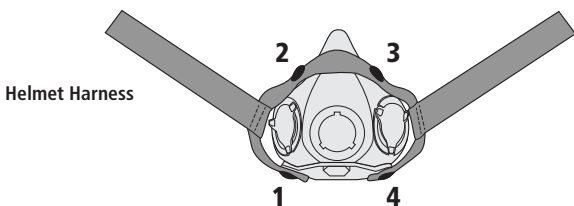
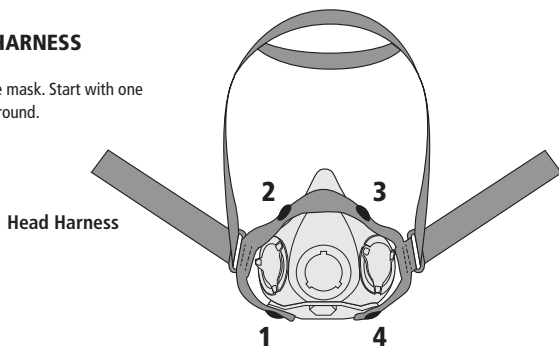
# HARNESSES SETUP

## HARNESSES CONFIGURATIONS

The SOTR comes with both a Head Harness and Helmet Harness. Install one or the other, depending on how you choose to wear the the SOTR.

### 1 TO ATTACH HARNESSES

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



### 2 TO REMOVE HARNESSES

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



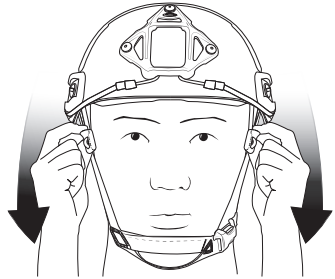
# FITTING

## HELMET HARNESS CONFIGURATION

The helmet harness attaches to the helmet with Velcro.

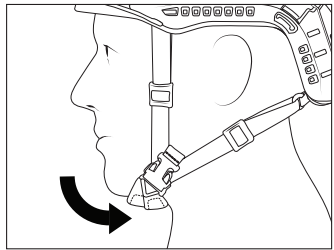
### 1 DON HELMET

Don the helmet and fasten the chinstrap as shown.



### 2 REPOSITION CHIN STRAP

Slide the fastened helmet chin strap to below the chin as shown.



### 3 POSITION SOTR ON FACE

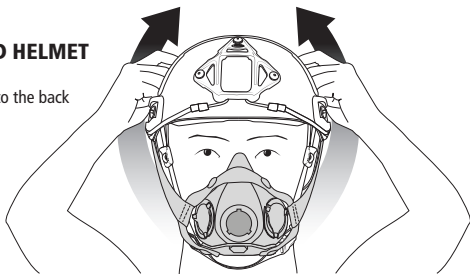
While extending the Helmet Harness straps, position the SOTR on your face as shown.



# FITTING

## 4 PULL STRAPS AROUND HELMET

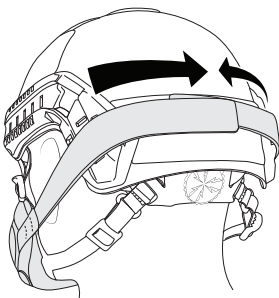
Uniformly pull the elastic Velcro straps to the back of the helmet.



## 5 SECURE VELCRO STRAPS

Secure Velcro straps to helmet Velcro and/or each other.

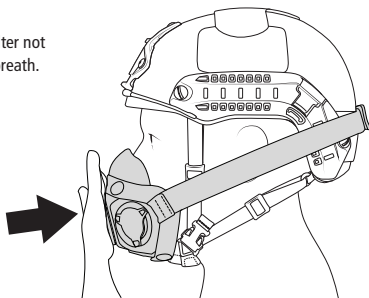
**CAUTION:** Over-tightening mask can cause discomfort and/or leakage.



## 6 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 and/or Velcro straps accordingly to ensure seal (repeat steps 3-6).



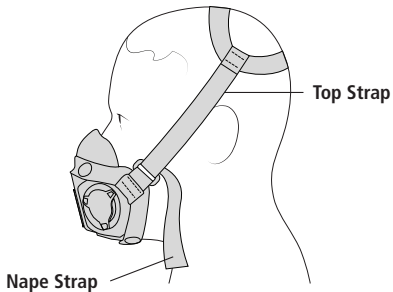
# FITTING

## HEAD HARNESS CONFIGURATION

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

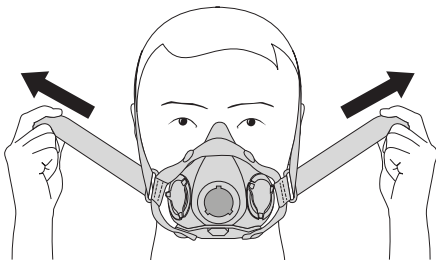
### 1 POSITION STRAP ON HEAD

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



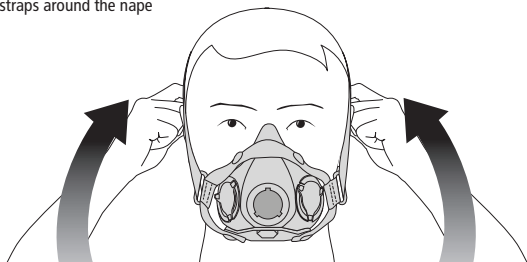
### 2 POSITION SOTR ON FACE

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



### 3 PULL STRAPS AROUND HELMET

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

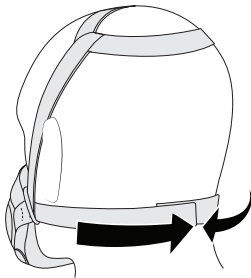


# FITTING

## 4 SECURE VELCRO NAPE STRAPS

Secure Velcro nape straps to each other as shown.

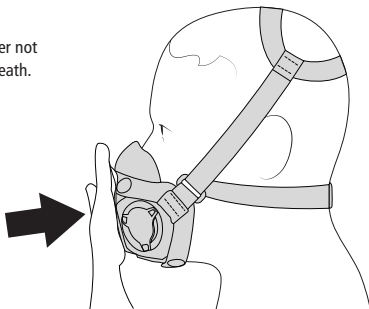
**CAUTION:** Over-tightening mask can cause discomfort and/or leakage.



## 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.

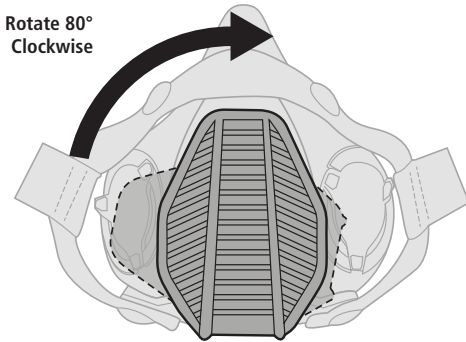
If necessary, adjust placement of SOTR and/or Velcro nape straps accordingly to ensure seal (repeat steps 1-5).



# FILTER INSTALLATION

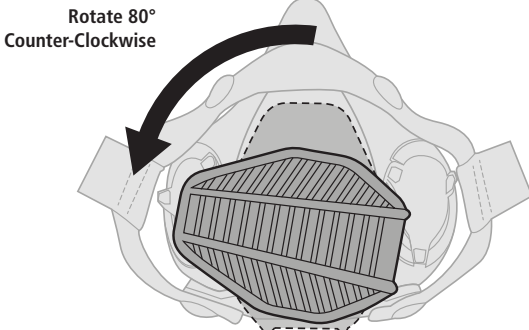
## FILTER INSTALLATION

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 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 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 your filter accordingly 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

