

C50 Replacement Parts



Inlet/Outlet Disk Valves

- An Inlet Disk Valve is used to help control the management of airflow through the mask during the breathing cycle.
- The valve closes on exhalation stopping back flow of air through the filter.



Head Harness Assembly

- Stretchable and breathable fabric adjust to head form
- Washable up to 10 times
- Once adjusted to wearer, bottom two strap only require adjustment during donning
- Low profile brow pad prevent hot spots during helmet use

OUTSERTS

- Outserts provide additional eye protection
- Simple to use
- Users can fit and remove outsert quickly while wearing a mask



Clear outsert for increased ballistic protection, prevents wear to primary polyurethane visor

Blueblocker outsert for specialist users. Removes blue light wavelengths for sharper weapons sighting (ideal for snipers)

Sunlight outsert for eye protection in extreme environments. Hides wearer eyes to provide psychological advantage in threat scenario



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C50 Protective Mask

Initial Sizing and Fitting



Warnings, Cautions & Notes



WARNING

WARNING User's safety depends on properly sized and fitted mask assembly.

Before putting on and adjusting mask assembly, users shall remove all hairpins, combs, hair knots, buns, or braids that will interfere with mask assembly seal. Users must be clean-shaven to prevent mask assembly leaks.

DO NOT wear contact lenses (soft or hard) while wearing CB Protective Masks. Inadequate oxygen supply to the corneal surface, exposure to dust, dirt, and smoke/gas may cause serious vision loss or eye damage. Users requiring vision correction are provided optical inserts for their protective masks.

NOTE

Masks are to be cleaned as often as is required. However, **MASK MUST BE CLEANED AND SANITIZED BEFORE TRANSFERRING TO ANOTHER USER.**

Initial sizing and fitting should only be accomplished by trained personnel and is conducted without the hood installed.

C50 Facepiece Sizes

- The mask is available In 3 sizes to fit most of the adult population
- Twin port filter mount accommodates left and right hand shooter
- Size is molded into mask above visor
- Typical sizing % for a team are listed below

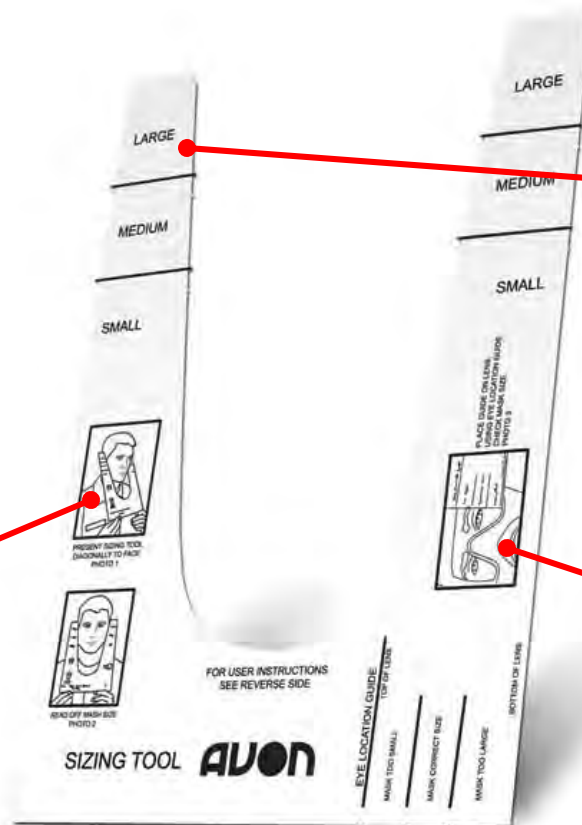
Size	Designator	Size Split
Small	S	15%
Medium	M	60%
Large	L	25%



Sizing Gauge Familiarization

User
Diagram

*Directions on
the reverse side



Sizes

Eye Location
Guide

Sizing Procedures w/Sizing Gauge

Note: It maybe more convenient to size and fit using a sizing set consisting of 1 of each size C50. Once correct size is determined, a new mask can be issued

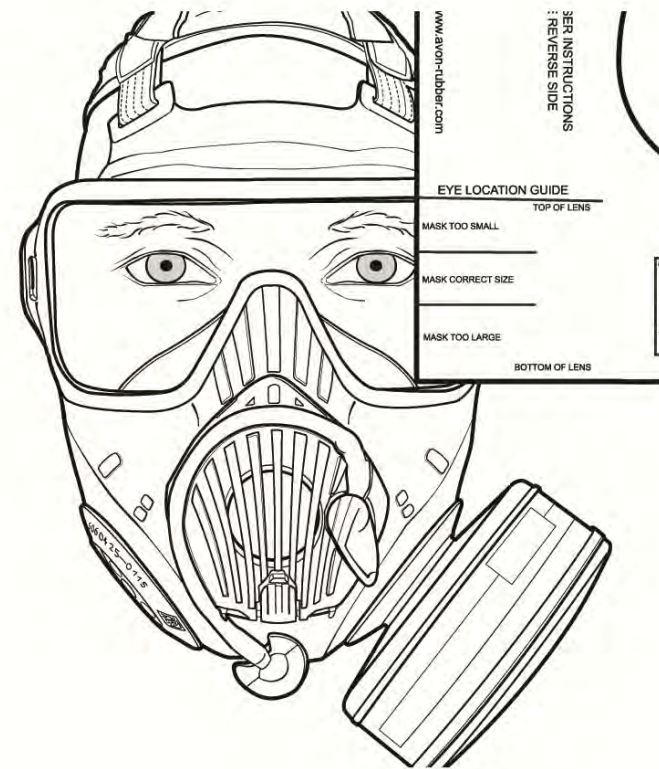
1. Place the gauge to the face diagonally along the line from the point of the chin to the widest point of the cheekbone.
2. Read the size of the mask where it touches the cheekbone.
3. If between two sizes pick the larger size
4. Have the user don the selected mask, and assist in correctly tightening the straps



Sizing Procedures w/Sizing Gauge Cont.

Note: ensure the your eyes are at the same level as the users.

1. Using the eye locator on the gauge, locate the bottom edge of the guide on the rubber lip at the bottom of the eye lens. Locate the “Top of Lens” mark with the top of the eye lens.
2. If the pupils are within the “correct size” zone the mask is properly sized.
3. If the pupils are in the “too small” zone, select a larger mask. Repeat the last three steps.
4. If the pupils are in the “too big” zone, select a smaller mask. Repeat the last three steps.



Alternate Sizing Procedures

1. Visually assess the size of the user and select the most likely size mask
2. Have the wearer hold the selected size mask on their face with the chin positively located in the chin cup
3. Pull the head harness over the head and tighten the cheek, brow and temple straps
4. Check to see that the center of the pupils is slightly above the centerline of the visor
5. If the eyes appear to be too high, the mask is too small; if they are too low, the mask is too big

Alternate Sizing Procedures

1. The mask should make firm contact with the face around the entire perimeter of the facepiece
2. The distance between the edge of the mask and the lobe of the ear is typically in the range of .5 to 1.5 inches
3. If the distance is less, then the mask is probably too large and gaps at the forehead and chin may be observed
4. If the distance is greater, then the mask is too small and may appear to be perched on the face
5. Remove the initial mask and issue the warfighter the selected mask size

Fitting Procedures

1. Remove the mask and issue the correct size to the user.
2. Clean the sizing masks for next fitting

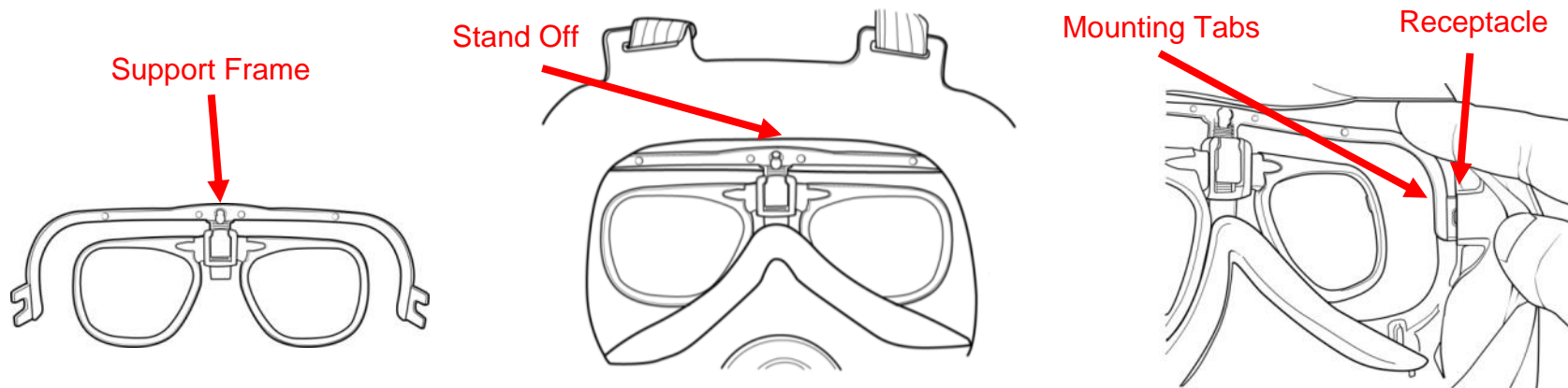
Assist the user in donning the correct size mask by:

1. Open a CBRN F12B or CTF 12 Filter and install
2. Ensure microphone is installed if required
3. Install optical correction if required
4. AVON recommends that canteen caps be changed to the Avon canteen cap at this time.

Vision Correction Assembly

Installation

1. Reach inside facepiece and hold nosecup away from vision correction assembly
2. Place the vision correction support frame on the stand-off and push it down
3. Flex the facepiece in the temple strap area on the left or right sides mask; gently push the support frame-mounting tabs into the vision correction support frame receptacle



Vision Correction Adjustment

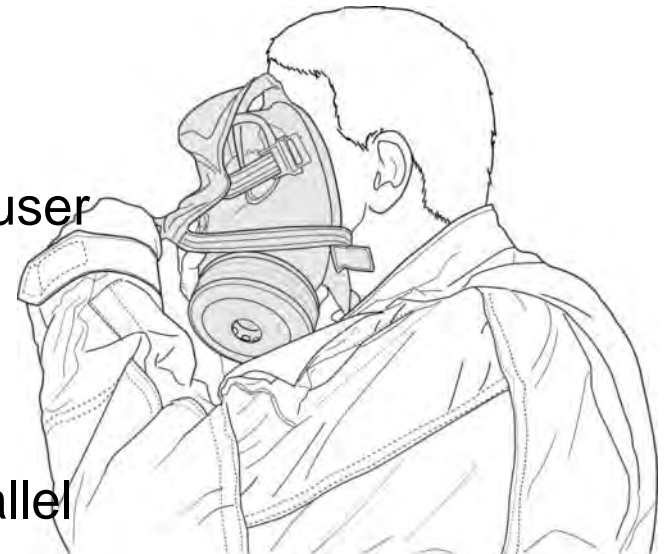
1. Don the mask; eyes should be centered, if not determine which direction the adjustment should be made – up or down
2. Doff the mask
3. Loosen the spectacle frame assembly cam lock
4. Slide frame assembly up or down to adjust
5. Lock in place with cam lock
6. Re-check to ensure the stand-off is still in place
7. Don and recheck adjustment

Cam Lock



Mask Fitting Procedures

1. Loosen all of the head harness straps completely
2. Ensure temple strap pivoting buckles remain open
3. Pull harness over front of mask
4. Have the user hold hair away from the face
5. Place chin in the chin cup of mask and have user hold assembly tightly against the face
6. Grasp harness tab and pull over the head
7. Pull all the way down
8. Adjust harness so that temple straps are parallel to the ground



Fitting Procedures

1. Tighten cheek straps one at a time until snug against face
2. Adjust brow straps one at a time until tight and secure in the brow strap covers
3. Adjust temple straps one at a time until snug
4. Close pivoting buckle clamp plate securing the temple straps in place



Checking Mask for Fit

Check position of temple and cheek straps

1. Temple straps should not be cutting top of ears
2. Temple straps should be parallel to the ground
3. Cheek straps should not be cutting bottom of ears

NOTE

- Once the mask is adjusted correctly, **DO NOT ADJUST** the brow and temple straps again. The mask is now fitted and adjusted correctly. Only the cheek straps need to be loosened or tightened when donning or doffing the mask

Checking Mask for Fit

1. Recheck that the eyes are centered
2. Straps do not cut into ears
3. Mask assembly pressure
4. Bottom of mask assembly does not cut into the throat
5. Skin in front of ear is not wrinkled
6. Nosecup does not obscure vision
7. Edges are flat against the face and not rolled under

Negative Pressure Test After Initial Fitting

1. Have user place palm over outlet valve and blow outward with large breath
2. Then place the palm over the inlet hole of the filter and breath in. Mask should collapse against the face and remain there while holding the breath. If it does, fit is correct.
3. If it fails check the following and repeat the negative after each one



Negative Pressure Test Failure checks

- ✓ Check for hair, clothing, or other matter interfering with seal
- ✓ Ensure headharness is pulled down as far as possible
- ✓ Ensure edges are flat against the skin
- ✓ Have warfighter feel for air leaks by feeling for incoming air
- ✓ Adjust straps as required
- ✓ To correct leaks around throat area lift up on mask
- ✓ If still does not seal try another size or different mask

Fitting Procedures

- **Size the internal drink tube**
 1. Turn the drink lever upwards to reposition the internal drink tube towards lips
 2. If it is too long, doff the mask and pull the internal drink tube out
 3. Cut internal drink tube behind the first barb
 4. Reinstall internal drink tube
 5. Repeat to achieve the proper fit

NOTE

Ensure not to cut the internal drink tube too short or the warfighter will not be able drink while wearing the mask