



FIG. 01 — ALPHA BALLISTIC HELMET, RAIL-READY SHELL

USER CARE & INSTRUCTION MANUAL · ST-ALPHA

Sarkar Alpha Ballistic Helmet

A ballistic and anti-fragmentation helmet offering NIJ Level IIIA protection in a reduced-profile shell. A four-point retention system and a seven-pad sizing suspension deliver stability, comfort and fast fitting — with front shroud holes ready for an NVG mount.

PROTECTION

NIJ IIIA

THREAT

9MM-.44

RETENTION

4-POINT

SUSPENSION

7-PAD

01 / FEATURES & BENEFITS

Lightweight ballistic protection, built for the mission.

The Sarkar Alpha is a composite ballistic and anti-fragmentation helmet engineered for reduced weight and a low profile, improving manoeuvrability, situational awareness and compatibility with other protective equipment.



FIG. 02 – ALPHA HELMET

FEATURE OVERVIEW

- A1 **NIJ Level IIIA protection** against 9 mm and .44 Magnum ballistic threats
- A2 **Reduced-profile composite shell** for improved manoeuvrability, situational awareness and equipment compatibility
- A3 **Four-point retention system** for unmatched stability, comfort and adjustability
- A4 **Seven-pad sizing suspension** for comfort and ease of fitting
- A5 **Ballistic hardware** minimises injury from secondary projectiles
- A6 **Front shroud holes** permit attachment of an NVG mount

02 / COMPONENT DESCRIPTION

The parts of the system.

Helmet Shell

Ballistic composite shell using state-of-the-art materials to enhance protection at reduced weight. Available in four sizes; front holes permit attachment of an NVG mount.

Retention Assembly

Integrated chin/nape retention for stability and comfort, with an adjustable nape pad and adjustable chin strap.

Sizing Pad Suspension

A set of seven hook-and-loop pads: two rectangular (front and back), one round crown pad, and four oval lateral pads.

Available in four sizes. Optional side rails and an NVG shroud extend the platform for mission-specific accessories.

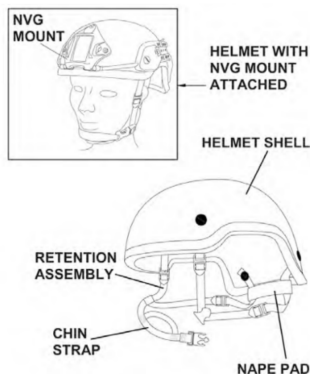


Figure 2. Helmet Shell and Retention Assembly

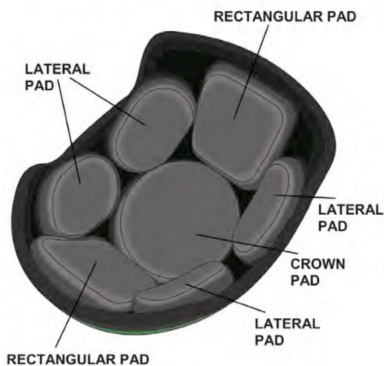


Figure 3. Sizing Pad Suspension System

FIG. 03 – SHELL,
RETENTION & PADS

COMPONENT
LAYOUT

03 / DONNING, DOFFING & OPERATION

Fitting and adjusting the helmet.

WARNING

Ensure all helmet adjustment mechanisms are properly adjusted for a snug and secure fit at all times while the helmet is worn. Failure to do so may result in helmet instability and reduced protection for the wearer.

01 Don the helmet

Place the helmet on the head so the front edge rests just above the brow ridge.

02 Fasten the chin strap

Secure the chin strap buckle.

03 Check helmet height

The front edge should sit just above the eyebrows. To adjust, move the front strap slides up or down.

04 Adjust the nape strap

Adjust the nape strap as required for a snug, secure fit.

05 Fine-tune the chin strap

Detach the chin-strap ends from the hook-and-loop, pull until snug and comfortable, then reattach securely.

06 Remove the helmet

To doff, unbuckle the chin strap and lift the helmet from the head.

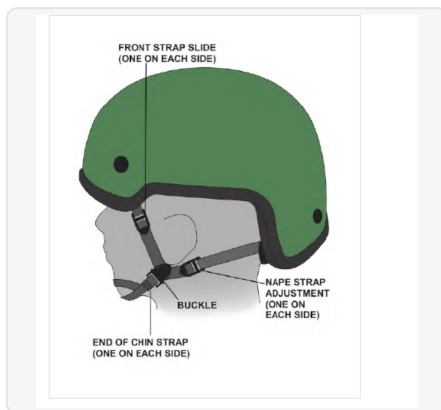


FIG. 04 – ADJUSTMENT STRAP SLIDES & NAPE

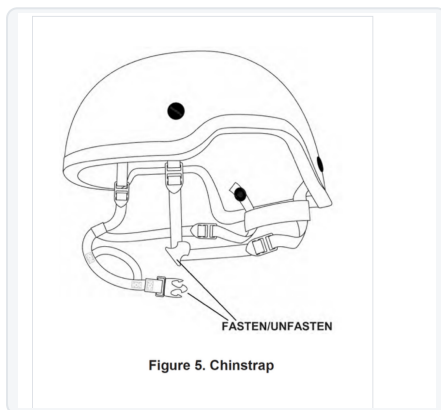


FIG. 05 – CHIN STRAP FASTEN / UNFASTEN

04 / MAINTENANCE

Inspection, cleaning & troubleshooting.

Inspect all helmet components regularly to ensure operational readiness. Replace any component that shows the damage described below.

PREVENTIVE MAINTENANCE CHECKS

Chin Strap

Inspect for broken buckles, torn or frayed webbing, and worn hook-and-loop. Replace if buckles are broken, webbing is damaged, or fasteners fail to secure.

Retention Assembly

Inspect for torn or frayed webbing, broken nape-strap buckles, and worn nape or buckle pads. Replace components as necessary.

Helmet Shell

Inspect for holes, cracks, or delamination greater than 2 inches. Replace the shell immediately if such damage is present.

CLEANING

Helmet Shell

Wipe clean using a damp cloth.

Retention Assembly

Wipe clean using a damp cloth.

Sizing Pads

Machine wash using mild detergent in cold water.

TROUBLESHOOTING

Cannot fasten or adjust chin strap

Inspect the chin strap for defective webbing, damaged buckles, or worn hook-and-loop. Replace the chin strap if defects are found.

Cannot maintain helmet stability

Inspect the retention assembly for defective buckles, worn buckle tabs, torn or frayed webbing, or worn nape pads. Replace pads or the harness system as required.

Shell cannot provide adequate protection

Inspect the shell for holes or cracks. Remove all internal components, replace the damaged shell, then reinstall all components — beginning with the retention assembly.

NOTE — Never machine-wash or immerse the helmet shell or retention assembly. Only the sizing pads may be machine washed.

05 / REMOVAL & REPLACEMENT

Chin strap & sizing pad suspension.

Tools required — None.

■ CHIN STRAP

REMOVAL

- 01 Unfasten the chin-strap buckle on the left side of the retention assembly.
- 02 Unlace the chin strap from the right side of the retention assembly.

INSTALLATION

- 01 Lace the chin strap through the buckle on the right side of the retention assembly.
- 02 Don the helmet.
- 03 Fasten the chin strap to the buckle on the left side.
- 04 Check helmet fit and make any necessary adjustments.

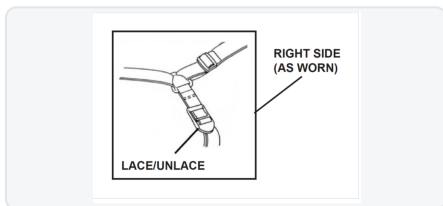


FIG. 06 — CHIN STRAP

LACE / UNLACE ·
RIGHT SIDE

■ SIZING PAD SUSPENSION

- 01 **Remove the pads.** Remove the sizing pads from the helmet, noting their position and orientation.
- 02 **Install replacements.** Install the replacement pads in the same configuration as the originals.
- 03 **Check fit.** Don the helmet, check fit, and make any necessary adjustments.



FIG. 07 — SIZING PADS NOTE POSITION

06 / RETENTION ASSEMBLY

Replacing the retention assembly.

Tools required — flat-tip screwdriver, torque tool (if available), removable thread-locking compound.

REMOVAL

- 01 Remove the lateral sizing pads as required to access the retention hardware inside the helmet. Note pad positions before removal.
- 02 Remove the four shoulder screws and conical nuts securing the retention assembly to the shell.

INSTALLATION

- 01 Apply removable thread-locking compound to the screw threads. If a torque tool is available, tighten to 80–100 inch-ounces.
- 02 Install the replacement retention assembly using the shoulder screws and conical nuts.
- 03 Reinstall the front and rear sizing pads in their original positions.
- 04 Don the helmet and check fit, making adjustments as necessary.

PART LIST

2 × RAILS (OPTIONAL)	STARS
1 × 7-PAD SET	ST7SAP
4 × CONIC NUTS	NUTAL4

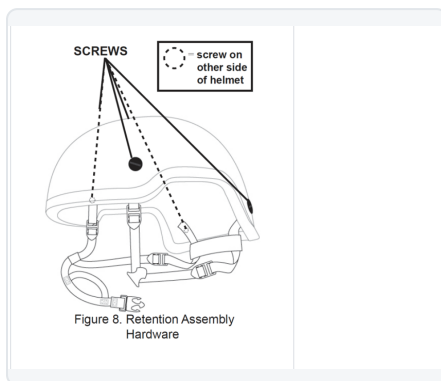


FIG. 08 — RETENTION
HARDWARE

SCREW
LOCATIONS

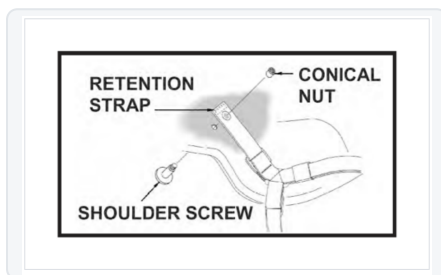


FIG. 09 — STRAP
FIXING

SCREW & CONICAL
NUT

1 × RETENTION ASSEMBLY	SECUREFIT
4 × SCREWS	BOLTAL4
1 × NVG SHROUD (OPTIONAL)	STNVG3

07 / COMPONENT IDENTIFICATION & SPECIFICATION

Know your helmet system.

The helmet system includes ladder locks, quick-release buckles, a four-point harness, nape pad, chin strap, helmet screw set, conic nuts, and a seven-pad comfort system of front, rear, crown and lateral pads.

MODEL	ST-ALPHA · Ballistic Helmet	SUSPENSION	Seven-pad sizing system
SHELL	Ballistic composite, reduced profile	SIZES	Four sizes
PROTECTION	NIJ Level IIIA (9 mm & .44 MAG)	ACCESSORY	Front shroud holes for NVG mount
RETENTION	Four-point chin/nape system	OPTIONS	Side rails · NVG shroud

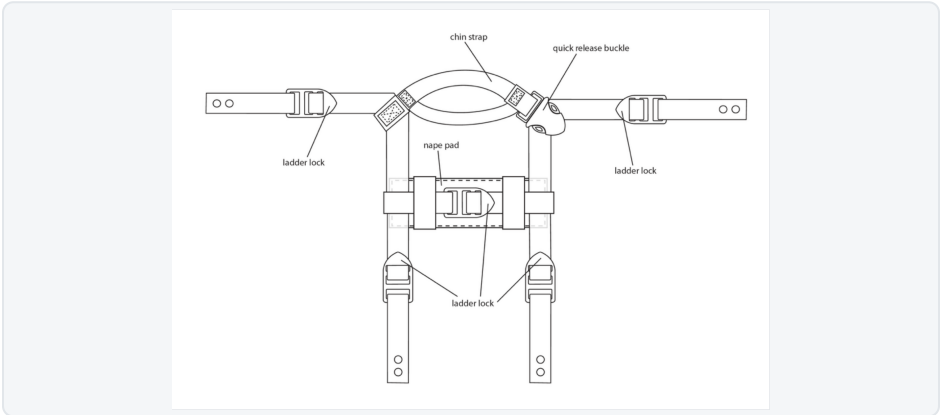


FIG. 10 – RETENTION HARNESS

COMPONENT IDENTIFICATION



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