TEAM WENDY® EXFIL® ENDURANCE

USER GUIDE

INNOVATE TO PROTECT

SECTION 1

DESCRIPTIONS AND CAPABILITIES

PERFORMANCE STANDARDS AND CERTIFICATIONS 7

EQUIPMENT CAPABILITIES, CHARACTERISTICS AND FEATURES 8

MAJOR SUBSYSTEMS 9

SECTION 2

OPERATOR INSTRUCTIONS

SIZING TO HEAD CIRCUMFERENCE 11

RETENTION FIT ADJUSTMENT 12

SECTION 3

MAINTENANCE PROCEDURES

PRODUCT USE & STORAGE 15

WASHING INSTRUCTIONS 16

OPERATOR INSPECTION CHECKLIST 17

SECTION 4

REPLACEMENT INSTRUCTIONS

SUSPENSION SUBSYSTEM REPLACEMENT 21

RETENTION SUBSYSTEM REPLACEMENT 24

SHROUD SUBSYSTEM REPLACEMENT 25

SHOCK CORD SUBSYSTEM REPLACEMENT 26

ACCESSORY RAIL SUBSYSTEM REPLACEMENT 27

NOTE

For any topics not outlined in this guide, including warranty information, please visit TeamWendy.com.

Please carefully read, understand, and always follow all safety information contained in these instructions prior to the use of this Ballistic Helmet.

FAILURE TO FOLLOW ALL SAFETY INFORMATION COULD RESULT IN SERIOUS INJURY OR DEATH.

Retain these instructions for future reference.

⚠ WARNING

Follow these instructions to appropriately use the Ballistic Helmet to reduce the risks associated with ballistic or blunt impact. Failure to follow the instructions below could severely compromise the ability to protect the wearer and increases the risk for serious injury or death:

- Read and follow the User Instructions prior to use of this Ballistic Helmet.
- Many factors uniquely within the user's knowledge and control can affect the use and performance of the Ballistic Helmet. The user is solely responsible for evaluating the Ballistic Helmet and determining whether the Ballistic Helmet is suitable to the user's intended conditions of use.
- Inspect the Ballistic Helmet according to the inspection guidelines prior to each use.
- Never modify or alter the Ballistic Helmet.
- Do not use the Ballistic Helmet if it does not fit properly.
- Never pull too tightly on any strap while putting on the helmet. Always position Ballistic Helmet on head and hold in place with one hand on top of Ballistic Helmet for initial adjustment. This prevents the helmet from becoming uncomfortable and tilted on your head and it prevents the chin cup from becoming uncentered.
- All suspension system components must be properly installed in the Ballistic Helmet. Wearing the Ballistic Helmet with missing or incorrectly installed suspension system components severely compromises the ability to protect the wearer.
- Never machine wash or dry any component of the Ballistic Helmet or the Ballistic Helmet itself.
- Do not expose to an external heat source.
- Do not use the Ballistic Helmet as a hammer, shovel, chair, or for any other unintended purpose.
- Do not store the Ballistic Helmet outside of the specified storage conditions outlined in the User Instructions.
- Do not use in place of an appropriately rated helmet for motor vehicle use.

SECTION 1

DESCRIPTIONS AND CAPABILITIES

Performance Standards and Certifications

- Ballistic Performance: NIJ Level III-A/HG2 (according to NIJ STD 0106.01/0108.01)
- Fragment Performance: 17gr V50 ≥ 2400 ft/s (731 m/s)
- Backface Deformation: 9mm FMJ RN @ 1195 ft/s (365 m/s), BFD < 25.4 mm all locations
- Exceeds ACH Blunt Impact requirements per AR/PD10-02, 16Dec'13

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Product is export controlled under the U.S. Export Administration Regulations (EAR).

Equipment Capabilities, Characteristics and Features

The EXFIL® Endurance Helmet provides multiuse ballistic protection at a significant weight reduction over conventional combat helmets for improved mobility and reduced fatigue.

Physical Properties (Not for specification purposes)

Size Available	Size 1/ Size 2
Shell Cut	High Cut
Colors	Black, Ranger Green, Coyote Brown, and MultiCam

Major Subsystems

1. High-Cut Helmet
2. Suspension System
3. Retention System
4. No Thru-Hole NVG Shroud
5. No Thru-Hole Rails
6. Exterior Loop Set
7. Shock Cord

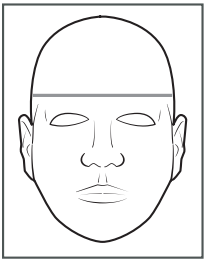
SECTION 2

OPERATOR INSTRUCTIONS

Sizing to Head Circumference

It is important that the helmet is fit properly to achieve the correct protection level for the wearer.

Measuring to determine shell size:



1. User must be seated in an upright position.
2. Measure the maximum head circumference by pressing the tape just above the bony eyebrow ridge of the forehead and above both ears. Tape measure must be pulled tightly.
3. Using the following table, select the helmet shell size.

⚠ WARNING

Never pull too tightly on any strap while putting on the helmet. Always position Ballistic Helmet on head and hold in place with one hand on top of Ballistic Helmet for initial adjustment. This prevents the helmet from becoming uncomfortable and tilted on your head and prevents the chin cup from becoming uncentered. For the initial set-up please don the helmet in front of a mirror or colleague to ensure the helmet is level and the chinstrap is centered.

Helmet Size	Size 1	Size 2
Suspension Type	Head Circumference	
Team Wendy EXFIL® Endurance Fit Liner System	20.5-23.5 (52-60 cm)	23-24.75 in (58-63 cm)

Retention Fit Adjustment

⚠ WARNING

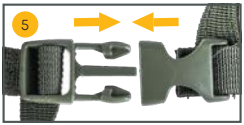
Do not use the Ballistic Helmet if it does not fit properly.

Team Wendy CAM FIT®
Retention System

Team Wendy CAM FIT® Retention System Adjustment

1. Loosen all four CAM FIT® buckles by pulling up on the locking tab.
2. With CAM FIT® buckles open, fully loosen straps by sliding CAM FIT® buckles toward the helmet.

3. Release the adjustment dial lock by pulling outward on the dial (1).
4. Place the helmet on operator's head and buckle the chin strap with chin in the chin cup.



6 Re-engage the adjustment dial locking/ratchet mechanism by pushing inward on the adjustment dial.

7 Turn the adjustment dial until the helmet fits snug on the head. Correct fit should be comfortable but tight enough to hold helmet in place when head is shaken slightly.

8 Slide the CAM FIT® buckles on the lower webbing straps forward or backward until snug and then close the locking tab on the CAM FIT® buckles.

Retention NOT adjusted correctly. Helmet edge trim at ear location is NOT Horizontal.

Retention adjusted correctly. Helmet edge trim at ear location is Horizontal.

Retention NOT adjusted correctly. Helmet edge trim at ear location is NOT Horizontal.

9 Slide the CAM FIT® buckles on the temple straps down until snug and the helmet is aligned as shown above.

10 When satisfied with orientation and fit, close the locking tabs on the CAM FIT® buckles.

11 Ensure helmet is stable and make minor adjustments as needed.

SECTION 3

MAINTENANCE PROCEDURES

Product Use & Storage

Proper storage and use of the helmet is important in order to maintain its protective capabilities.

Product modifications/alterations, including through misuse, abuse, neglect, mishandling, breakage, damage, unauthorized repair or service, ordinary wear-and-tear, abnormal or abusive maintenance, accidents, natural forces, acts of God, or other causes may be detrimental to the helmet intended capability.

Proper use and care of the product includes, but is not limited to, avoidance of the following:

- Exposure to chemicals and/or solvents.
- Storage in high heat.
- Storage in direct sunlight for prolonged periods of time.
- Storage in damp areas.

⚠ WARNING

Do not store the Ballistic Helmet outside of the specified storage conditions outlined in the User Instructions.
Do not expose Helmet to an external heat source.

Washing Instructions

Clean as needed after use.

Helmet Shell

1. Clean with mild soap and water using a soft brush or cloth.
2. Rinse thoroughly in clean water.
3. Allow to air dry either indoors or in shade, away from heat sources.

Suspension (pads) and Retention Systems

1. Remove pads and retention system from helmet.
2. Hand wash with a mild detergent.
3. Allow to air dry either indoors or in shade, away from heat sources.

Recommendation: A small brush is useful in removing dirt from the hook disks on the inside of the shell. Keeping the hook and loop clean will help to maintain the ability of the pads to stick to the inside of the helmet.

Operators Inspection Checklist

- Inspect helmet prior to and following each use.
- Inspect the exterior of the shell for any visual dents. If any dents are found, remove the suspension pads and retention system and inspect the interior of the shell for a corresponding inside dent. If a corresponding interior dent is identified, the helmet must be replaced. Failure to observe this precaution could result in serious injury or death to user.
- Inspect the exterior of the helmet for any major scratches or gouges in the surface of the helmet. Any scratch or gouge that exposes white fibers indicate the need for helmet replacement. Failure to observe this precaution could result in serious injury or death to user.
- Inspect the hook and pile attachment pads for the suspension system, retention system and exterior loop pads for a secure bond to the helmet surface. Peeling or delaminating pads must be replaced with new pads.
- Inspect the screws that attach the rails (if present) and front plate or NVG shroud to the helmet. Ensure that they are snug and have not had the threads stripped.
- Inspect the retention strap attachment to the helmet shell. Make sure each clip is fully seated in the appropriate slot.

⚠ WARNING
Inspect the Ballistic Helmet according to the inspection guidelines prior to each use.

Inspection and Replacement Schedule

Inspect all components frequently for signs of damage using the Inspection Checklist (previous page). Replace damaged components as soon as possible.

A helmet that exhibits damage to the shell or suspension liner, such as cracking, deformation or soft spots, should be removed from active use.

REPLACEMENT INTERVAL	HELMET COMPONENTS
Every Year	Comfort Pads
Every 2 Years	Retention Impact Liner Hardware
Every 5 Years	Shell Assembly

SECTION 4

REPLACEMENT INSTRUCTIONS

Suspension Subsystem Replacement

When installing the EXFIL® Endurance Air Fit Liner System it should be positioned as shown in the “as-worn” configuration. (If using the compatible EXFIL® SL Liner reference the replacement instructions),

Team Wendy®
EXFIL® Endurance Air Fit Liner System

Back

Front

Impact liner and cooling pads

Back

Front

Comfort pads

Liner Replacement: EXFIL® Endurance Air Fit Liner System

1. Remove old pads as needed by slowly peeling them off the Velcro® hook that is attached to the helmet shell. Make sure the hook remains securely attached to the shell.

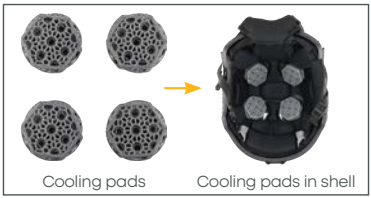
Empty shell

2. Install the new pads by pressing them firmly against the helmet shell and hook. The flat side with flange goes against the shell. Install the three impact liner pads in the following order:
   - Place the front impact liner section so the pad edge is flush with the inside edge of the plastic trim attached to the helmet brim. The pad should be centered left-to-right within the helmet.
   - Place the crown impact liner section between the front and rear pads, centered in the helmet.
   - Place the rear impact liner section so the pad edge covers the retention clips without covering the plastic trim attached to the helmet brim.

Impact liner

Impact liner in shell

3 Install the four cooling pads by placing each pad into the space between the impact liners.



4 Install the comfort pads on top of the impact layer as needed to achieve best fit, starting with the front comfort pad. The back of each comfort pad has Velcro® hook panels for attachment. After testing the fit, add, remove, or reposition pads as desired.

Retention Subsystem Replacement

1. Remove all pads and the old retention system. Make sure the dark gray hook panels are still securely attached to the shell interior.

2. Begin with the rear section. Align the notches in the center of the retention loop panel with the notches in the dark gray hook panel. Press down in the center first, then work slowly out toward the edges.

3. Install a side panel. Make sure webbing is not twisted, then align the edge of the retention loop panel with the bottom edge of the dark black hook panel. Press down in the center first, then work out toward the edges.

4. Repeat with the opposite side. Make sure the webbing is not twisted.

Shroud Subsystem Replacement

1. Use a Torx T15 Screwdriver, driver tip, or L-key to remove the two screws holding the shroud in place. Retain screws.

2. Place the shroud on the helmet, aligning the two mounting slots in the shroud with the two mounting holes on the helmet.

3. Use a Torx T15 Screwdriver, driver tip, or L-key to install supplied self-tapping screws and tighten to a torque of 8 in-lbs. Start each fastener before final tightening.

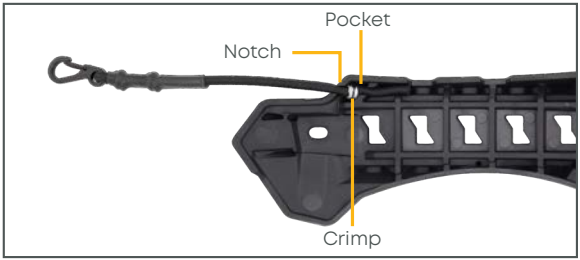
⚠ WARNING

DO NOT OVERTIGHTEN, as this may strip the helmet shell material, causing permanent damage to the helmet.

Shock Cord Subsystem Replacement

The accessory rails can be equipped with NVG Security/Stability Shock Cords as shown.

1. Follow instructions for Rail installation.
2. To install the shock cord: Just before installing the rail, lay the cord into the notch on the front of the rail, making sure the metal cord crimp is inside its pocket. The bungees are captured between the helmet and the rail when the rail is installed.



Accessory Rail Subsystem Replacement

1. Use a Torx T15 Screwdriver, driver tip, or L-key to remove the three screws holding the rail in place. Lift the rail off the helmet. Retain screws.

2. If installing shock cord with the rails, see Shock Cord Installation.
3. Place rail on helmet and slide the front and back sections of the rail behind tabs on the plastic band around the bottom edge of the helmet shell.
4. Use a Torx T15 Screwdriver, driver tip, or L-key to install supplied self-tapping screws and tighten to a torque of 8 in-lbs. Start each screw before final tightening.

⚠ WARNING

DO NOT OVERTIGHTEN, as this may strip the helmet shell material, causing permanent damage to the helmet.

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INNOVATE TO PROTECT

Founded in 1997, Team Wendy is dedicated to providing exceptional head protection systems designed from the inside out for those who risk their lives every day. Our Cleveland-based company places a strong focus on the prevention of traumatic brain injury (TBI) in honor of our namesake Wendy Moore, who died tragically from a TBI following a ski accident. In Wendy's name, we are steadfast in our pursuit of improving head protection research, design and development, bringing more choice, better technology and reliable customer service to the industry.

Military

Law Enforcement

Search & Rescue

Adventure

TEAM WENDY®

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