



Protecting you for life's best moments.

Z-LINK® RADIANT HEAT UI R1

GVS-RPB.COM

Instruction Manual

Z-Link® Radiant Heat Respirator

Employers: Read this manual and the flow control device instruction manual and carry out the employer responsibilities (page 5).

Product users: Read this manual and the flow control device instruction manual and follow the product user safety instructions (page 6).

Manuals are regularly updated. Make sure this manual is available to all users for reference.

Current version of manual and other languages: gvs-rpb.com/industrial/resources



NIOSH
APPROVED

ANSI
Z87+
EYE & FACE PROTECTION

CE 2797
UK
CA 0086
EN166:2001 CLASS 1 BT 9 3
EYE & FACE PROTECTION

PRODUCT CERTIFICATION

BSI Certified Product
AS/NZS 1337.1:2010
BMP# 714304
EYE & FACE PROTECTION

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EXPLANATION OF SIGNAL WORDS AND SYMBOLS

The following signal word and safety symbols are used in this manual and product labeling:



WARNING

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.



Read the Instruction Manual.

Additional copies of RPB® manuals can be found at gvs-rpb.com.

RPB® Safety LLC is an ISO9001 certified company.

INTRODUCTION

The Z-LINK® Radiant Heat Kit is an optional gold plated Radiant Heat Visor and Aluminized Cape attachment for high heat applications such as foundries and mills. Additionally, the Aluminized Top and Rear Covers for the helmet and Aluminized Breathing Tube Cover are available for increased protection. It allows the user to quickly add on the Radiant Heat attachments to any Z-LINK Respirator for radiant heat and flame protection while maintaining APF 1000 (TH3) respiratory protection.

This product must be inspected and maintained in accordance with this instruction manual at all times.

See PROTECTION PROVIDED AND LIMITATIONS (page 4) for details.

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For technical assistance contact our Customer Service Department at 1-866-494-4599 or email: sales@gvs.com

Form #: 7.20.572

Rev: 1

IMPORTANT SAFETY INFORMATION

WARNING

Improper selection, attachment, use, or maintenance of this product can result in injury. This product is intended for occupational use in accordance with applicable standards or regulations for your location, industry, and activity (see Employer Responsibilities, page 5). Familiarity with standards and regulations related to the use of this protective equipment is recommended, even if they do not directly apply to you. If self-employed or if used in a non-occupational setting, refer to Employer Responsibilities and Product User Safety Instructions. Go to gvs-rpb.com/Industrial/important-safety-information for helpful links to OSHA and other content.

Employers: Read this manual and the Z-LINK Instruction Manual and carry out the Employer Responsibilities (page 5).

Product users: Read this manual and the Z-LINK Instruction Manual and follow the Product User Safety Instructions (page 6).

Check website for updates. Product manuals are regularly updated.

Visit gvs-rpb.com/Industrial/resources for the most recent version of this manual before using the product.

PROTECTION PROVIDED AND LIMITATIONS

- The Z-LINK **Radiant Heat Kit** consists of the Radiant Heat Visor, the Aluminized Shoulder Cape. Additionally the Aluminized Top Cover, Aluminized Rear Cover and the Aluminized Breathing Tube Cover are available options.
- The Z-LINK **Radiant Heat Visor** meets ANSI/ISEA Z87.1, EN 166:2001, AS/NZS 13371:2010 and CSA Z94.3-15 requirements and is designed to protect the operator's face and head against high heat and debris emitted during metal manufacturing processes.
- Use the RPB **Aluminized Shoulder Cape, Top Cover and Rear Cover** for protection from heat, sparks, debris, and light flashes.
- Never use the Z-LINK Radiant Heat Kit without the Z-LINK Grinding Visor and Safety Lens in place, as this is part of the respiratory seal.
- **Note:** the Z-LINK Radiant Heat Visor does not protect against the potential transfer of impact to glasses worn underneath the Grinding Visor. Z-LINK visors do not provide complete eye and face protection against severe impact and penetration and are not a substitute for good safety practices and engineering controls.
- The **aluminized fabric** is tested based on the ASTM F1939 test method and rated to temperatures up to 800°F (+427°C) and a radiant temperature of 3000°F (+1649°C). The fabric is an O-PAN/Aramid constructed in a ripstop weave.
- The Z-LINK **Radiant Heat Visor** is **NOT** intended for welding. Using this visor for welding could result in permanent eye injury or vision loss. The Radiant Heat Visor does not provide high enough UV protection for the UV created by welding. Use the Z-LINK+® for welding applications.

- In the case of **molten metal or hazardous liquid (flammable, corrosive, etc.) splash** the user must leave the work area immediately and remove the Z-LINK Radiant Heat attachments, avoiding contact with the hazardous material. Inspect and clean or replace the affected components.

EMPLOYER RESPONSIBILITIES

Your specific responsibilities may vary by location and industry, but in general RPB expects that employers will:

- **Follow all applicable standards and regulations for your location, industry, and activity.**

Depending on your location and industry, a number of standards and regulations may apply to your selection and use of respirators and other personal protective equipment. These may include such things as federal (e.g., OSHA, MSHA, CE, Canadian Occupational Health and Safety), local (e.g., state, provincial), or military standards and regulations and consensus standards such as ANSI and CSA. There are also requirements specific to particular contaminants, e.g. silica (see gvs-rpb.com/industrial/important-safety-information for more information), asbestos, organic pathogens, etc. Know which requirements apply to your location and industry.

- **Have appropriate safety programs in place.**

Have and follow:

- A workplace safety program. Determine a working temperature range that is safe given all PPE being used.

- **In accordance with the above,**

- Perform a hazard analysis and select appropriate equipment for each activity.** A hazard analysis should be performed by a qualified person. Controls should be in place as appropriate and a qualified person should determine what kind of face and eye protection is appropriate for the intended activities and environments of use.

As applicable, check your workplace safety program and standards and regulations for your activity or industry for related protection requirements, and see this manual (Protection Provided and Limitations, page 4) and the RPB PAPR, or the flow control device Instruction Manual for product specifications.

- Train employees in the Z-LINK Radiant Heat kit use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the RPB Z-LINK Radiant Heat Kit and attachments per ASTM F3387-19 guidelines to provide training.

Train each Z-LINK Radiant Heat Kit user in the product's use, application, inspection, maintenance, storage, fitting, and limitations in accordance with the content of this Instruction Manual and standard or regulatory requirements. Ensure that each intended user reads this manual and that of the Z-LINK Respirator.

- Ensure that equipment is properly set up, used, and maintained.**

Make sure that equipment is properly set up, inspected, fitted, used, and maintained.

EMPLOYER RESPONSIBILITIES CONTINUED

- ☐ **If you have any questions, contact RPB.**
 - Call Customer Service Department at:
Tel: 1-866-494-4599
Email: sales@gvs.com
Web: gvs-rpb.com

PRODUCT USER SAFETY INSTRUCTIONS

BEFORE INITIAL USE - BE TRAINED AND MEDICALLY QUALIFIED

Do not use this accessory until you have read this manual and the Z-LINK Respirator Instruction Manual (additional copies available at gvs-rpb.com/industrial/resources) and have been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is knowledgeable about the RPB® Z-LINK® Respirator.

Allergens: No known common allergens are used in this product.

Some materials could cause an allergic reaction in susceptible individuals. If you have a known allergy or develop irritation, inform your employer. Irritation may occur from lack of cleaning. Following all cleaning and care instructions provided in the instruction manuals for this and any other RPB products you are using.

MAKE SURE THE SYSTEM IS READY FOR USE

Use only authentic RPB brand parts and components that are part of the approved respirator assembly. Using incomplete or inappropriate equipment, including the use of counterfeit or non-RPB parts, can result in inadequate protection and will void the approval of the entire respirator. Do not modify or alter any part of this product.

Inspect all components daily for signs of damage or wear and tear that may reduce the level of protection originally provided. Remove any damaged component or product, including any ripped or torn cape, lens that has been subject to impact or worn or scratched gold plating from service until repaired or replaced. Scratched or damaged lenses, visors, or other components should be replaced with genuine RPB brand replacement parts.

Make sure that the Radiant Heat Kit is correctly assembled in the configuration that suits your application. An incomplete or improperly installed Radiant Heat Kit or attachments could provide inadequate protection. See *SETUP AND CARE (page 8)*.

VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY

Verify that the Z-LINK Radiant Heat Kit provides appropriate protection for your activity. As applicable, check your workplace safety program, respiratory protection program, and standards and regulations for your activity or industry. (See PROTECTION PROVIDED AND LIMITATIONS, page 4.)

PRODUCT CARE

Never place the Radiant Heat attachments directly on hot surfaces as this can affect the

components differently than exposure to high ambient or radiant temperatures and cause damage. Do not apply paints, solvents, adhesives or self-adhesive labels except as instructed by RPB. This product may be adversely affected by certain chemicals.

See the "Setup and Care" section for more specific cleaning instructions.

DO NOT ENTER THE WORK AREA if any of the following conditions exist:

- The ambient temperature is outside the range of 14°F to 200°F (-10°C to +93°C). Do not enter the area if the temperature is beyond the rated range for this kit or outside the temperature range your employer has determined is safe depending on all PPE being used. Refer to the aluminized fabric specifications for radiant temperature rating.

Temperature limits of other equipment being used also needs to be taken into account, such as the PAPR. If using a PAPR, try to keep it out of direct or prolonged heat. The PAPR must be worn on the user's back, with the user's front towards the heat source to keep the electronic components and battery from over heating. If possible, using Supplied Air with a C40™ Climate Control Device is recommended to provide cooled air inside of the respirator.

- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe, such as a PAPR.

LEAVE THE WORK AREA IMMEDIATELY IF:

- Any product component becomes damaged.
- Vision is impaired.
- You have any other reason to suspect that the Z-LINK or the Radiant Heat attachments are not providing adequate protection.
- In the case of molten metal or hazardous liquid (flammable, corrosive, etc.) splash the user must leave the work area immediately and remove the Z-LINK Radiant Heat Kit, avoiding contact with the hazardous material. Inspect and clean or replace the affected components.

CERTIFICATION AND TESTING

NORTH AMERICA: The Z-LINK Radiant Heat Visor, Aluminized Shoulder Cape, Aluminized Top and Rear Covers, and Breathing Tube Cover are NIOSH approved accessories that are part of an approved respiratory protection system. Refer to the Instruction manuals for the Z-LINK respirator head-top and the Flow Control Device such as the C40 or RPB PAPR.

CE/UK: The Z-LINK Radiant Heat Visor, Aluminized Shoulder Cape, Aluminized Top and Rear Covers, and Breathing Tube Cover meet the requirements of the PPE Regulation (EU) 2016/425 and have been tested and certified by:

CE: BSI Group The Netherlands B.V. (NB2797), Say Building, John M. Keynesplein 9, 1066 EP, Amsterdam, NL

UKCA: BSI Group (AB0086), Kitemark Court, Knowhill, Milton Keynes MK5 8PP, United Kingdom

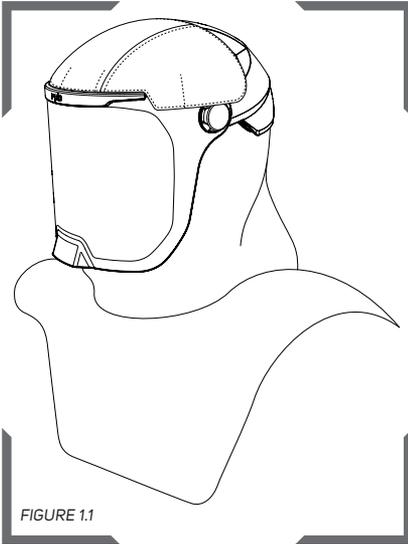
CERTIFICATION AND TESTING CONTINUED

PPE REGULATION:

- The Z-LINK Radiant Heat Kit conforms to the PPE Regulation (EU) 2016/425.
- The Declaration of Conformity can be found at gvs-rpb.com/industrial/resources
- See the Storage section for information on packaging and protection required for transportation.

CONFIGURATIONS

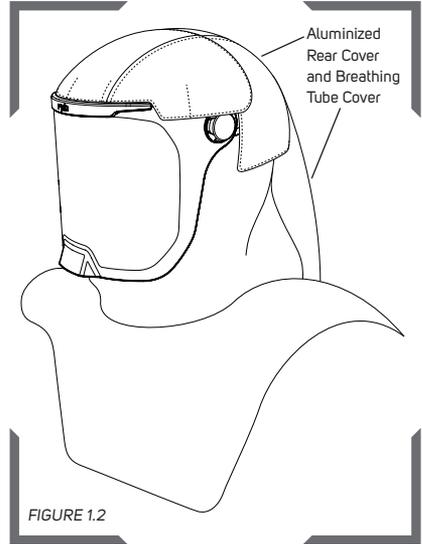
SHOULDER CAPE AND TOP COVER



Includes: Gold Plated Visor, Aluminized Shoulder Cape, and Aluminized Top Cover.

This configuration is best for applications where the radiant heat is only coming from the front.

FULL COVERAGE



Includes: Gold Plated Visor, Aluminized Shoulder Cape, and Aluminized Top Cover, as well as the Aluminized Back Cover and the Aluminized Breathing Tube Cover.

This configuration is best for applications where the radiant heat can come from any direction, such as going inside the high heat area or when walking away.

SETUP AND CARE

ALUMINIZED CAPE INSTALLATION/REPLACEMENT

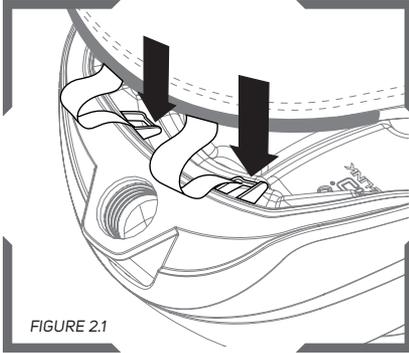


FIGURE 2.1

Secure the hook and loop strips through the attachment points in the back of the helmet. These should be tight enough so that when the rear seal is pressed in, the fabric is bunched up a little.

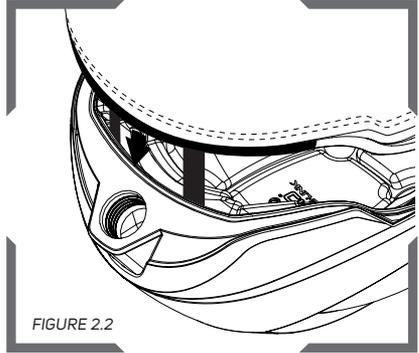


FIGURE 2.2

Press the rubber seal on the cape into the track that goes around the back of the helmet, making sure the cape/face seal is completely attached all of the way around. When the back of the cape is tugged on, the strips should keep it from coming out of the track.

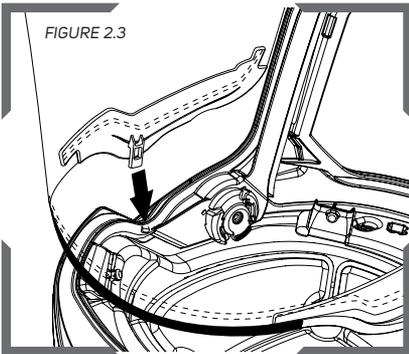


FIGURE 2.3

Attach the side cape clips into the helmet. Make sure the clip goes over the notch on the helmet and the clip edge goes into the track around the edge of the helmet.

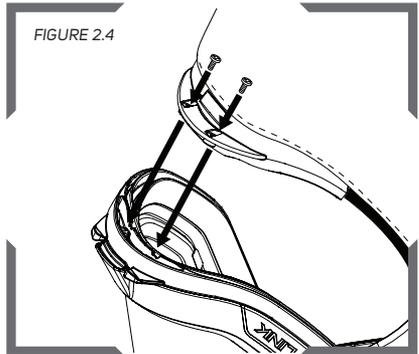
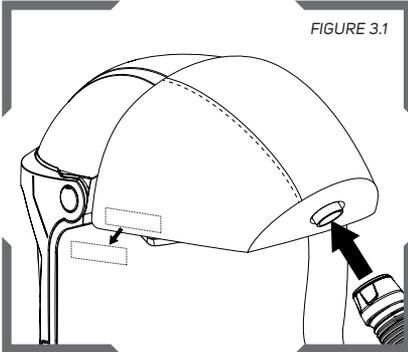


FIGURE 2.4

Insert the front clip into the track around the front of the jaw. Make sure the holes are aligned and insert and tighten the screws to secure the front of the cape. Press the rubber seal in on both sides.

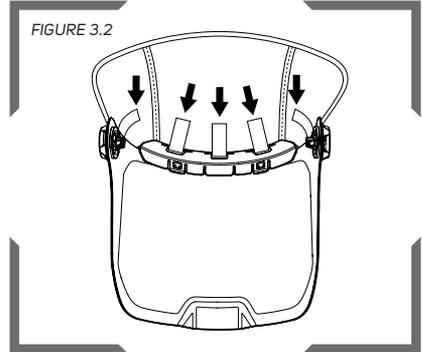
SETUP AND CARE CONTINUED

ATTACH THE BACK COVER



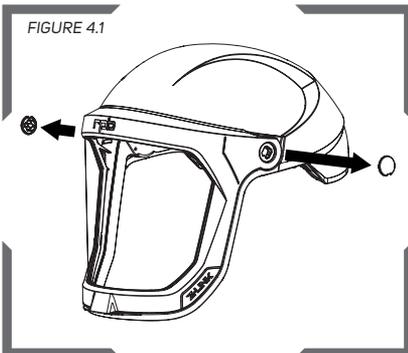
Place the rear cover over the back of the helmet and secure the hook and loop on the sides. With the breathing tube connector sticking out through the hole on the rear cover, attach the breathing tube tightly.

ATTACH THE TOP COVER

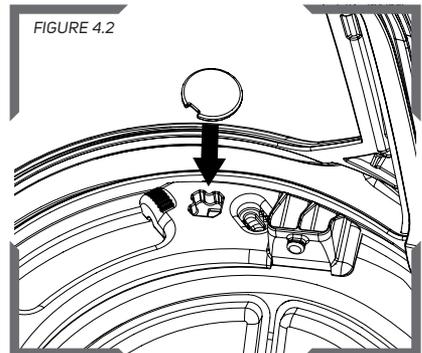


Slide each of the 5 hook and loop strips through the slots on the top of the visor until there is no gap between the visor and the top cover. Press the hook and loop together firmly.

INSTALL/REMOVE RADIANT HEAT VISOR

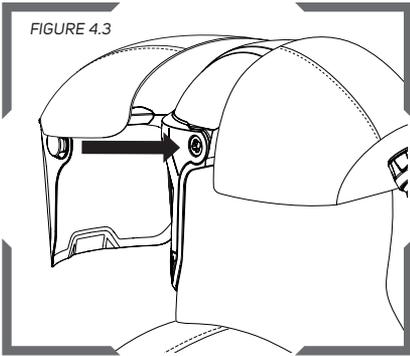


To install the Z-LINK Radiant Heat Visor, remove the pivot pin caps on the Z-LINK.



Insert the caps into the holding sockets on the Head Harness Bracket so they don't get lost while using the Radiant Heat Visor.

FIGURE 4.3



Line up the Radiant Heat Visor connection sockets with the pivot points on the Z-LINK and insert them into the Z-LINK until they snap in securely. This can be done while wearing the Z-LINK.

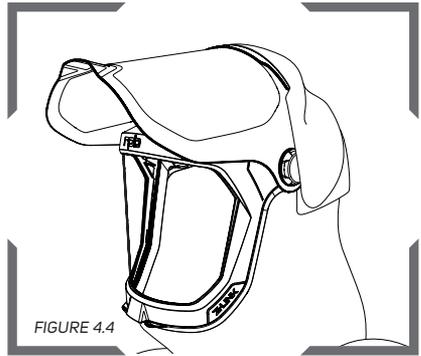
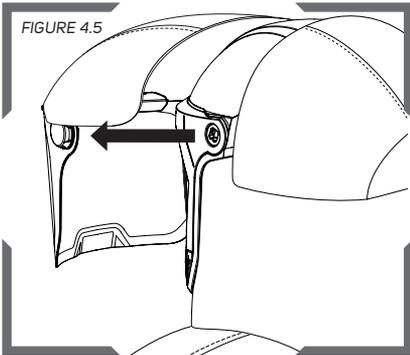


FIGURE 4.4

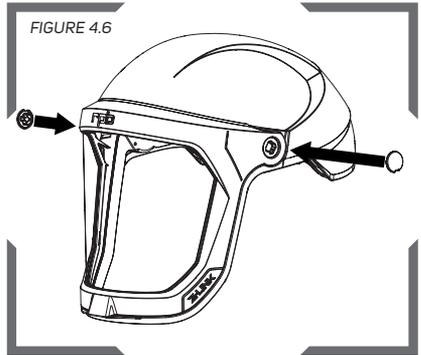
The Radiant Heat Visor can be rotated up independently of the Visor or together with the Visor.

FIGURE 4.5



To remove the Radiant Heat Visor from the Z-LINK, pull the sides of the Radiant Heat Visor out until the connection sockets snap out of the pivot points in the Z-LINK. This can also be done while wearing the Z-LINK.

FIGURE 4.6



If the Radiant Heat Visor is not going to be used again for a while, the socket caps can be snapped back into the pivot points to keep the area free of debris.

SETUP AND CARE CONTINUED

INSPECTION AND CLEANING

- **Lens:** Change the lens if the gold plating has started rubbing off, if there are scratches, or if the lens has any visible cracks or distortions.
- **Clean the lens:** Use a mild detergent and water. Pat dry with a soft cloth. Do not rub or scrub the lens.
- **Aluminized cape and attachment Covers:** Replace the aluminized fabric parts as needed when they are starting to show excessive wear and tear or if the aluminum coating is separating from the fabric in any way including bubbling or delaminating.
- **Clean the aluminized fabric parts:** Clean with a damp cloth to remove surface debris. For full washing, it is recommended to only wash these items in an ultrasonic washing machine on a low impact wash cycle.
- **Molten Metal:** Components damaged by molten metal should be replaced.
- **Hazardous liquid exposure:** Clean or neutralize the hazardous liquid according company policy depending on the substance. Replace the component if damaged from the contact.

⚠ WARNING

Never wash the aluminized fabric items in a household or an industrial washing machine as the aluminized layers will degrade, even if they still look shiny and intact. This degradation will significantly reduce the radiant heat protection of these items.

DONNING AND DOFFING

⚠ WARNING

Always check the interior of the respirator for contaminants before donning. Always don and doff the helmet while outside the work area, keeping the interior of the helmet clean and free of contaminants. Not doing these steps could expose you to hazardous materials, and contaminants that could impair the function of the respirator.

DONNING YOUR HELMET

Once you have completed the set up, you are ready to fit your RPB Z-LINK Respirator. Follow the Donning instructions from the Z-LINK instruction manual.

DOFFING YOUR HELMET

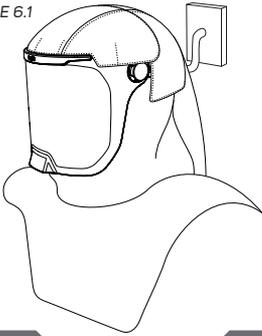
Follow the Doffing instructions from the Z-LINK instruction manual.

STORAGE

Before storing the Radiant Heat components, clean them following the cleaning instructions in this manual. After use, Radiant Heat components can be stored attached to the Z-LINK by hanging the assembly up in a clean, dry place, away from the work area. If the Radiant Heat components aren't going to be used for a longer period of time, store them in a container or a bag, either attached or unattached to the Z-Link respirator. Store in a cool dry place between 14°F to 113°F (-10°C to +45°C) <90%rh.

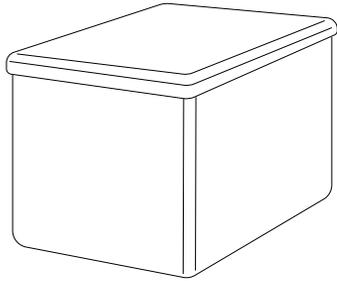
After use:

FIGURE 6.1



Long term storage:

FIGURE 6.2



Z-LINK RADIANT HEAT KIT PARTS AND ACCESSORIES

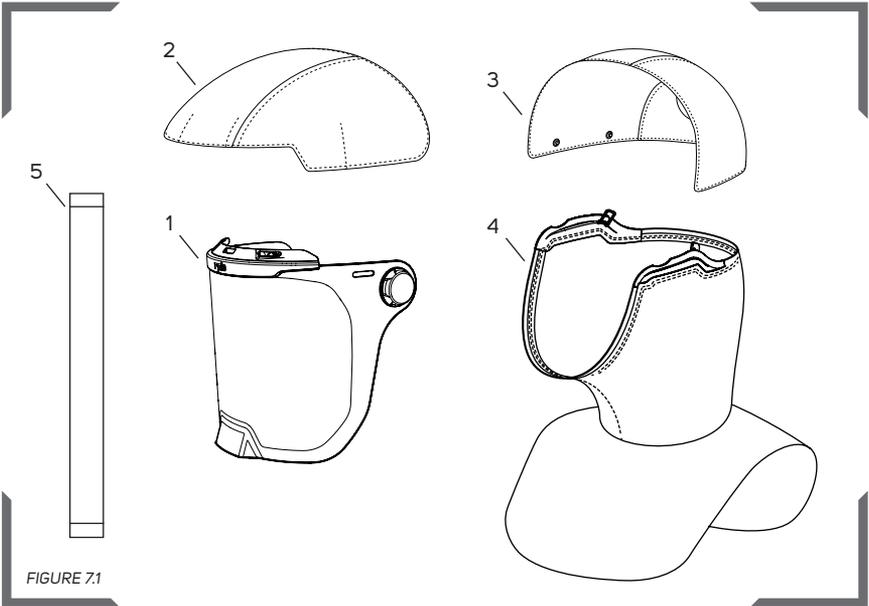


FIGURE 7.1

Item Number	Description	Part Number
1	Radiant Heat Gold Visor c/w Cover Clip, Retainer Assembly	16-675-GT
	Radiant Heat Gold Visor IR5 c/w Cover Clip, Retainer Assembly	16-675-GTIR5
	IR5 Visor - not plated c/w Cover Clip, Retainer Assembly	16-675-IR5
2	Aluminized Top Cover	16-744
3	Aluminized Rear Cover	16-754
4	Aluminized Shoulder Cape	16-724
5	Aluminized Breathing Tube Cover	04-855

LIMITED WARRANTY

RPB® warrants that its Products will be free from defects in materials and workmanship for one (1) year, subject to the terms of this limited warranty. The Products are sold only for commercial use, and no consumer warranties apply to the Products. This limited warranty is for the benefit of the original Product purchaser, and cannot be transferred or assigned. This is the sole and exclusive warranty provided by RPB®, and ALL CONDITIONS AND IMPLIED WARRANTIES (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE EXCLUDED AND DISCLAIMED FROM WARRANTY COVERAGE. RPB's® limited warranty coverage does not apply to damage resulting from accident, improper use or misuse of the Products, wear and tear resulting from the normal use of the Products, or the failure to properly maintain the Products.

RPB's® limited warranty coverage runs from the original date of purchase of the Products, and applies only to warranted defects which first manifest themselves and are reported to RPB® within the warranty period. RPB® retains the right to determine to its reasonable satisfaction whether any claimed defect is covered by this limited warranty.

If a warranted defect occurs, RPB® will repair or replace the defective Product (or a component of the Product), in its sole discretion. This "repair or replacement" remedy is the sole and exclusive remedy under this limited warranty, and under no circumstances shall RPB's® liability under this limited warranty exceed the original purchase price for the Products (or the applicable component). RPB® has no responsibility for incidental or consequential damages, including loss of use, maintenance and other costs, and ALL INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED AND DISCLAIMED from this limited warranty. Contact RPB® to obtain warranty service. Proof of purchase must be provided to obtain warranty service. All costs of returning the Products to RPB® for warranty service must be paid by the purchaser.

RPB® reserves the right to improve its Products through changes in design or materials without being obligated to purchasers of previously manufactured Products.

LIABILITY

RPB® Safety cannot accept any liability of whatsoever nature arising directly or indirectly from the use or misuse of RPB® Safety products, including purposes that the products are not designed for. RPB® Safety is not liable for damage, loss or expense resulting from the failure to give advice or information or the giving of incorrect advice or information, whether or not due to RPB® Safety's negligence or that of its employees, agents or subcontractors.

OTHER PRODUCTS

RPB® QUIET-LINK™ EAR DEFENDERS

The RPB® Quiet-LINK™ ear defender system fits directly to the Z-LINK® and T-LINK® with no modifications. Combine with RPB® Earplugs for the ultimate in hearing protection. Protect your hearing for Life's Best Moments.



COMMS-LINK™

The world's most advance in-helmet communication system for Z-LINK® and T-LINK®. The RPB® COMMS-LINK™ system allows you to communicate without interrupting your work. The in-helmet headset and microphone connect to most professional radios.



RPB PX5 PAPER

The RPB PX5 is a compact and versatile PAPER that changes the way people experience clean filtered air across multiple industries – from medical and chemical settings, to the profoundly harsh environments of foundries. Boasting a sleek lightweight design, the PX5 contours to the users back, evenly distributing weight through its vertical mounting. With simple considered edges, curves and sealed housing unit, the PX5 is certified to meet IP65 in use for ease of decontamination.



MAN-89

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Protecting you for life's best moments.