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Z4® UI CE R8

GVS-RPB.COM

# Instruction Manual Z4® Welding Respirator

**Employers:** Read this manual and the flow control device instruction manual and carry out the employer responsibilities (page 8).

**Product users:** Read this manual and the flow control device instruction manual and follow the product user safety instructions (page 10).

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/resources](https://gvs-rpb.com/resources)



CE 2797  
UK  
CA 0086

EN12941:2023 TH2  
RESPIRATORY PROTECTION  
See instruction manual for protection levels.

EN352-1:2020  
HEARING PROTECTION  
Only in conjunction with 18-524 earmuffs.

EN166:2001 CLASS 1B  
EYE & FACE PROTECTION

EN379:2003+A1:2009  
and EN175:1997  
WELDING EYE PROTECTION

EN812:2012  
HEAD PROTECTION  
Only in conjunction with 15-850 Bump Cap.

PRODUCT CERTIFICATION



BSI Certified Product

AS/NZS 1716:2012  
BMP# 714303

RESPIRATORY PROTECTION

AS/NZS 1338.1:2012  
BMP# 714305  
WELDING EYE PROTECTION

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



EN English P.2

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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.



**DANGER**

**DANGER** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



**Read the Instruction Manual.**

Additional copies of GVS-RPB® manuals can be found at [gvs-rpb.com](http://gvs-rpb.com).

## 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

### PPE REGULATION:

- The Z4 conforms to the PPE Regulation (EU) 2016/425. Regulation 2016/425 on PPE as brought into UK Law and amended.
- The Declaration of Conformity for CE and UKCA can be found at [gvs-rpb.com/resources](http://gvs-rpb.com/resources)
- See the Storage section for information on packaging and protection required for transportation.

**GVS-RPB Safety LLC is an ISO9001 certified company.**

**GVS-RPB® Safety - Global Headquarters**

2807 Samoset Rd, Royal Oak, MI 48073, USA.

T: 1-866-494-4599 F: 1-866-494-4509 E: sales@gvs.com

**GVS S.p.A.**

Via Roma 50, 40069 Zona Industriale BO, Italy

T: +39 0516176391 E: sales@gvs.com

**GVS Filter Technology UK Ltd.**

Caton Road, Lancaster, Lancashire, UK, LA1 3PE

T: +44 (0)1524 847600 E: sales@gvs.com

[gvs-rpb.com](http://gvs-rpb.com)

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

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## INTRODUCTION

The Z4 Weld Visor is a respirator for applications where there is a need for protection from airborne contaminants, and eye/face protection; such as welding and grinding. Additionally, the Vision-Link™ light attachment is available to provide light to the work area. Quiet-Slim™ behind-the-neck style earmuffs must be worn along with the Z4 Weld Visor.

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.

## IMPORTANT SAFETY INFORMATION

### **⚠ WARNING**

Improper selection, fit, use, or maintenance of this product can result in injury; life threatening delayed lung, skin or eye disease; or death.

This product is intended for occupational use in accordance with applicable standards or regulations for your location, industry, and activity (see Employer Responsibilities, page 8). 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/important-safety-information](https://gvs-rpb.com/important-safety-information) for helpful links to standards and other content.

**EMPLOYERS:** Read this manual and the air supply device Instruction Manual and carry out the Employer Responsibilities (page 8).

**PRODUCT USERS:** Read this manual and the air supply device Instruction Manual and follow the Product User Safety Instructions (page 10).

**CHECK WEBSITE FOR UPDATES.** Product manuals are regularly updated.

Visit [gvs-rpb.com/resources](https://gvs-rpb.com/resources) for the most recent version of this manual before using the product.

## PROTECTION PROVIDED AND LIMITATIONS

### RESPIRATION

The GVS-RPB Z4 is approved as in the categories as follows:

#### Powered Air

The GVS-RPB Z4 Respirator is approved to EN 12941:2023 TH2 (15-721) and TH2 (15-711) when properly fitted and used with all required components, including the Breathing Tube Assembly and the GVS-RPB PX5® Powered Air Purifying Respirator. As such, it significantly reduces, but does not completely eliminate, the breathing of contaminants by the respirator wearer. Specific protection depends on the filter selected for use in the GVS-RPB PX5 (see PX5 Instruction Manual).

**Head-top Classifications** TABLE 1.1

AIR SOURCE	RESPIRATOR HEAD-TOPS	EN 12941 CLASSIFICATION	NOMINAL PROTECTION FACTOR	BREATHING TUBES 04-831 04-841	HEPA FILTER	COMBINATION FILTERS
PX5	Z4 Shoulder Cape 15-721	TH2	50	✓	✓	✓
PX5	Z4 Face Seal 15-711	TH2	50	✓	✓	✓

The EN 12941 standard defines three classes of performance (TH1, TH2 and TH3). The numbers define the level of performance (inward leakage) and the pull strength of the breathing tubes and couplings within the classification. Inward leakage for classification TH1 is maximum 10%, for TH2 maximum 2% and for TH3 maximum 0.2%.

**HAZARD LIMITATIONS**

The GVS-RPB Z4 Respirator is **NOT FOR USE IF:**

- In atmospheres immediately dangerous to life or health (IDLH)
- Wearer cannot escape without the aid of the respirator.
- Atmosphere contains less than 21% ±1% oxygen.
- In abrasive blasting applications.
- For protection against hazardous gases (e.g., carbon monoxide).
- Contaminants are in excess of regulations or recommendations.
- Contaminants or contaminant concentrations are unknown.
- Work area is poorly ventilated.
- The temperature is outside the range of 14°F to 140°F (-10°C to +60°C).
- Used with systems including electrical parts that are not suitable for use when a flammable or explosive atmosphere is present - PX5, or Vision-Link.

**FACE AND EYES:**

- The Z4 **Face Shield** with **Safety Lens** meets EN 166:2001 (AS/NZS 13371:2010) requirements and is designed for grinding, and other industrial applications. It does not provide complete eye and face protection against severe impact and penetration and is not a substitute for good safety practices and engineering controls.
- The Z4 **Welding Visor** with **Impact Lens** and Auto-Darkening Welding Protection Filter (ADF) is manufactured according to EN 379:2003 (AS/NZS 13371:2010) requirements and is designed to protect the operator’s face and head against sparks and hazardous ultraviolet and infrared rays emitted during the welding process. See “Auto-Darkening Welding Protection Filter” (page 28) for information about ADF capabilities and use. Use an approved GVS-RPB welding face seal or cape for adequate protection from sparks, debris, and light flashes.
- The Z4 is not designed or tested to provide protection against molten metals or corrosive

## PROTECTION PROVIDED AND LIMITATIONS CONTINUED

liquids.

- **Note:** the Z4 does not completely protect against the potential transfer of impact to glasses worn underneath the Visor.

### HEAD:

- The Z4 does NOT meet the EN 397:2012+A1:2012 (AS/NZS 1801:1997) requirements for physical head protection as a hard hat. Ensure the helmet is adjusted to properly fit the user by adjusting the head harness.
- The Z4 does meet the EN 812:2012 the requirements for bump cap head protection when equipped with the 15-850 **Bump Cap**.

### HEARING:

- This respirator includes a pair of 18-524 Quiet-Slim Ear Defenders to meet EN 352-1:2020. The earmuffs are an integral part of the respirator. Please follow the user instructions when fitting the earmuffs to ensure proper wear, fit and protection levels.
- Hearing protection must be worn and properly fitted when exposed to noise levels that exceed the permissible exposure levels. It is required that additional hear protection is worn under this respirator, such as the 18-524 Quite-Slim Ear Defenders or a pair of Foam or Silicon Earplug with an SNR 25 rating or higher.

The Z4 is a loose fitting respirator, caution is required when used in high winds.



### WARNING

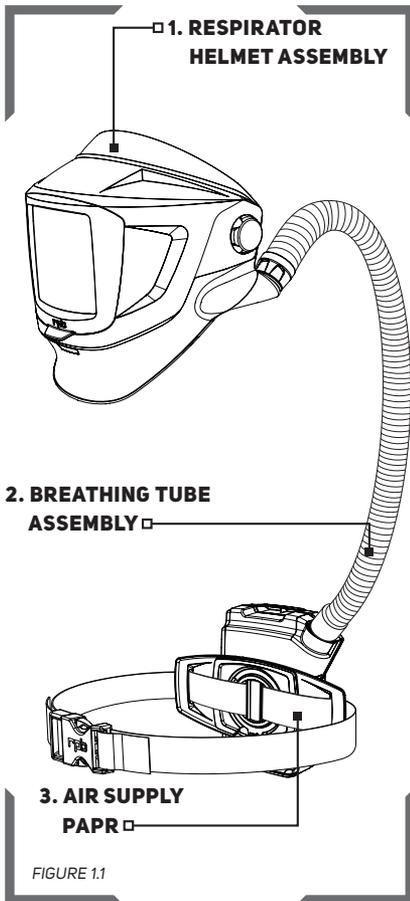
**The earmuffs must be worn while using the Z4 respirator.**

### WELDING:

- This product is tested and certified to EN 175:1997.

## RESPIRATOR COMPONENT DIAGRAM - PAPR

The GVS- RPB Z4 is one component of the three main components that constitute a powered air purifying respirator. (Note the PX5 has been used in the diagram as an example.)



## CAUTIONS AND LIMITATIONS

### POWERED AIR

- A. Not for use in atmospheres containing less than 21%  $\pm$ 1% oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use concentrations established by regulatory standards.
- F. Do not use Powered Air-Purifying Respirators if airflow is less than 180 lpm (6 cfm).
- H. Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridge and canisters are replaced before breakthrough occurs.
- I. Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.
- J. Failure to properly use and maintain this product could result in injury or death.
- L. Follow the manufacturer's User's Instructions for changing cartridges, canister and/or filters.
- M. All approved respirators shall be selected, fitted, used and maintained in accordance with applicable regulations.
- N. Never substitute, modify, add or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O. Refer to User Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- P. The Z4 is not evaluated as a respirator for use as a surgical mask.

## AIR SOURCE

### Powered Air

Check that the contaminated area is within the limits of use for a Powered Air Purifying Respirator and determine the type of contamination. Once the contamination level has been confirmed you can then determine the filter cartridge to be used for the application, to make sure that you are sufficiently protected. Make sure that the area is well ventilated and that regular air samples are taken to confirm the atmosphere stays within the levels recommended by local governing bodies. Follow the PX5 PAPR Instruction Manual for more details.

TABLE 1.2

<b>AIR FLOW</b>	MMDF: 170slpm (6cfm). Speed 1: Greater than 180slpm (6.4cfm). Speed 2: Greater than 205slpm (7.2cfm) Speed 3: Greater than 230slpm (8.1cfm)
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## EMPLOYER RESPONSIBILITIES

Your specific responsibilities may vary by location and industry, but in general GVS-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, local, or military standards and regulations and consensus standards. There are also requirements specific to particular contaminants, e.g. silica (see [gvs-rpb.com](http://gvs-rpb.com) 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.
- A written respiratory protection program in accordance with applicable standards and regulations.

■ **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 respiratory, face and eye, head, and hearing protection is appropriate for the intended activities and environments of use. (For example, select a respirator appropriate to the specific airborne hazards, with consideration of workplace and user factors and with an Assigned Protection Factor (APF) that meets or exceeds the required level for employee protection, select welding face and eye protection appropriate to the type of welding to be done, etc.)

As applicable, check your workplace safety program, respiratory protection 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 PX5 PAPR Instruction Manual for product specifications.

**☐ Be sure employees are medically qualified to use a respirator.**

Have a qualified physician or other licensed health care professional (PLHCP) perform medical evaluations using a medical questionnaire or an initial medical examination per government regulations where required.

**☐ Train employees in the Z4's use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the GVS-RPB Z4 per government regulations where required to provide training:

Qualifications of the Respirator Trainer. Anyone providing respirator training shall:

- a) be knowledgeable in the application and use of the respirator(s);
- b) have practical knowledge in the selection and use of respirator(s) and work practices at the site;
- c) have an understanding of the site's respirator program; and
- d) be knowledgeable of applicable regulations.

Train each Z4 user in the product's use, application, inspection, maintenance, storage, fitting, and limitations in accordance with the content of this Instruction Manual and the approved air supply device Instruction Manual and standards or regulatory requirements. Ensure that each intended user reads both of these manuals.

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

Make sure that equipment is properly set up, inspected, fitted, used, and maintained, including selection of the appropriate air filter cartridge and, when applicable, welding filter shade adjustments, for the application.

**☐ Measure and monitor airborne contaminants in the work area.**

Measure and monitor airborne contaminant levels in the work area in accordance with applicable requirements. Make sure work area is well ventilated.

**☐ If you have any questions, contact GVS-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 respirator until you have read this manual and the PX5 PAPR Instruction Manual (additional copies available at [gvs-rpb.com](http://gvs-rpb.com)) and been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is knowledgeable about the GVS-RPB Z4 Respirator.

Do not wear this respirator until you have passed a medical evaluation using a medical questionnaire or an initial medical examination by a qualified physician or other licensed health care professional (PLHCP).

**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 GVS-RPB products you are using.

### MAKE SURE THE SYSTEM IS READY FOR USE

**Make sure you have a complete system.** Verify that you have all required components for the Z4 to serve as a complete approved respirator:

- Respirator Helmet Assembly (Z4)
- Breathing Tube Assembly
- PX5 PAPR

See *Respirator Component Diagram* (page 7). The GVS-RPB Z4 is only approved to be used with the GVS-RPB PX5 PAPR. Use only authentic GVS-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-GVS-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 visor that has been subject to impact, from service until repaired or replaced. Scratched or damaged safety lenses or other components should be replaced with genuine GVS-RPB brand replacement parts. When safety and impact lenses are replaced, make sure to remove any additional protective film from both sides of the lens. If the film is left in place, it could affect the optical clarity of the lens and cause eye strain. Inspect the inside of the respirator for respirable dust or other foreign objects. Keep the inside of the respirator clean at all times.

- Z4 has a shelf life of 5 years from the date of manufacture.
- Z4 has an in service life of 3 years from when first put into use.

**Make sure that the helmet is correctly assembled** in the configuration that suits your application. Never use the respirator without all lenses in place. This includes the Safety Lens, Impact Lens, the ADF, and the rear ADF Lens. These lenses, when installed properly, are part of the respiratory seal to prevent toxic or hazardous gases, liquids or dust from entering the helmet. An incomplete

or improperly installed lens system could provide inadequate impact and respiratory protection. See *Respirator Setup and Care* (page 13). See *Donning* (page 30) for fit information.

### **VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY**

Verify that the Z4 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.)

### **BEFORE DONNING THE Z4:**

#### **Verify airborne contaminants are within recommended limits for respirator use:**

- Determine the type and level of contamination. Verify that airborne contaminant concentrations do not exceed those allowed by applicable regulations and recommendations for powered air purifying respirators.

#### **Select the correct filter cartridge for the contamination and application:**

- **PAPR:** Once the contamination level has been confirmed, determine the correct filter cartridge to be used for the application, to make sure that you are sufficiently protected. Follow the PX5 PAPR Instruction Manual.

#### **Make sure the area is ventilated and monitored:**

- Make sure that the area is well ventilated and that regular air samples are taken to confirm the atmosphere stays within the levels recommended by governing bodies.

If you have any questions, ask your employer.

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

- Atmosphere is immediately dangerous to life or health.
- You cannot escape without the aid of the respirator.
- Atmosphere contains less than 21% ±1% oxygen.
- When used with systems including electrical parts that are not suitable for use when a flammable or explosive atmosphere is present - PX5, VISION-LINK
- Contaminants are in excess of regulations or recommendations.
- Contaminants or contaminant concentrations are unknown.
- Work area is poorly ventilated.
- The temperature is outside the range of -10°C to +60°C (14°F to 140°F).
- The work area is a confined space (unless proper measures are taken for confined space welding).

#### **LEAVE THE WORK AREA IMMEDIATELY IF:**

- Any product component becomes damaged
- Vision is impaired
- Airflow stops or slows down, or alarm sounds. Do not use Powered Air Purifying Respirators if airflow is less than 180 slpm.
- Breathing becomes difficult
- You become dizzy, nauseous, too hot, too cold, or ill

## PRODUCT USER SAFETY INSTRUCTIONS CONTINUED

- Your eyes, nose, or skin become irritated
- You taste, smell, or see contaminants inside the helmet
- You have any other reason to suspect that the respirator is not providing adequate protection

### PRODUCT CARE

Never place the helmet on hot surfaces. Do not apply paints, solvents, adhesives or self-adhesive labels except as instructed by GVS-RPB. Product may be adversely affected by certain chemicals. See the "Respirator Setup and Care" section for cleaning and disinfecting instructions.

### INSTRUCTIONS FOR SPECIFIC USES OR ENVIRONMENTS

#### Welding

See Respirator Setup and Care (page 13) and ADF Operation (page 25) for important safety-related use and care information. Check the prescribed shade level for your welding application and adjust your auto-darkening filter accordingly (see table with recommended shade levels, page 28). Never place the auto-darkening welding filter (ADF) on hot surfaces. Do not expose the ADF to liquids and protect it from dirt. See ADF storage, maintenance, and cleaning information (page 26).

Make sure the helmet completely blocks any accidental light. Make sure light can only enter the front of the helmet through the viewing area of the auto-darkening welding filter.

#### Confined Spaces

Follow all procedures for confined space entry, operation, and exit as defined in applicable regulations and standards.

#### Welding in Confined Spaces

Welding in a confined space can present an atmospheric hazard due to the generation of contaminants and displacement of oxygen. Do not use the Z4 in confined spaces if the oxygen concentration will be reduced below 21% ±1%.

Check local standards for confined space procedures.

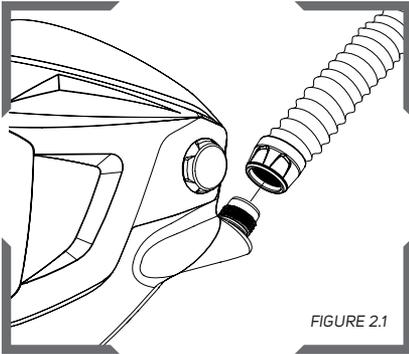


### **WARNING**

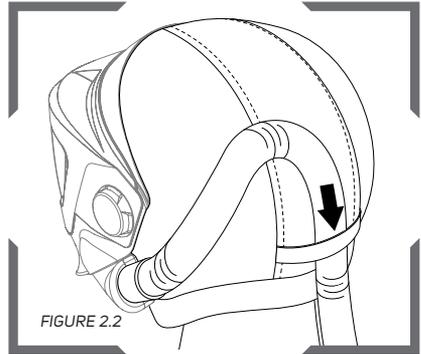
**Do not use the Z4 for welding without the Auto Darkening Protection Filter in place. Do not weld with only the grinding lens. Improper use may cause blindness or other permanent eye damage.**

## RESPIRATOR SETUP AND CARE

### BREATHING TUBE

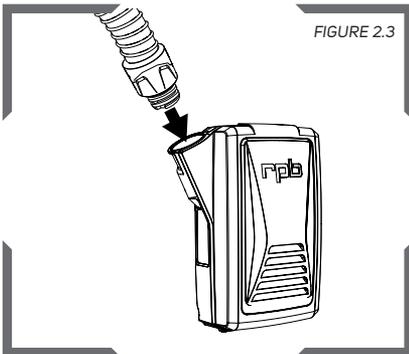


Screw the breathing tube (04-837) onto the threaded air intake on the side of the Z4 Weld Visor and screw the breathing tube in completely without over tightening.



Optionally, the breathing tube can be passed through the loop on the back of the face seal/cape to keep it centered and out of the way.

### POWERED AIR



Insert the bayonet end of the breathing tube into the outlet of the PAPR and twist it in until it is secure.

### FOR USE WITH GVS-RPB PX5 PAPR - SEE THE PX5 INSTRUCTION MANUAL

When the Z4 Respirator is being used in conjunction with the PX5 PAPR, please refer to the PX5 PAPR Instruction Manual for set up and use of the assembly.

Note: The PX5 is a Powered Air Purifying Respirator, therefore care must be taken when selecting the correct filter for the application the respirator will be used in.

## RESPIRATOR SETUP AND CARE CONTINUED

### IMPACT LENS REPLACEMENT

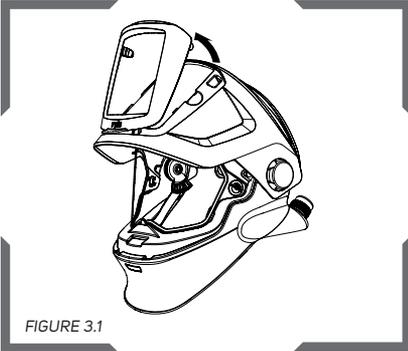


FIGURE 3.1

To replace the Impact Lens, lift up the Weld Visor, unlatch the green ADF Retainer from the Face Shield by pushing the tabs apart and pushing forward.

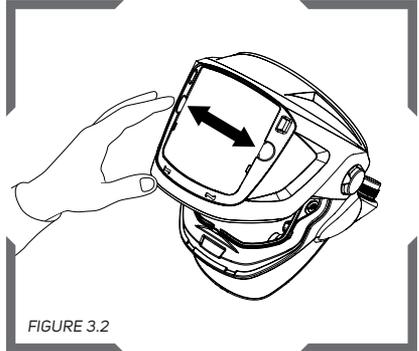


FIGURE 3.2

Remove the Impact Lens by squeezing the lens to remove it from the tabs on the sides.

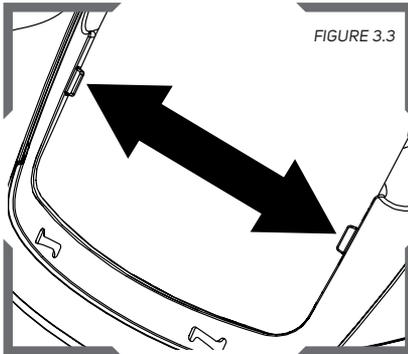


FIGURE 3.3

Insert a new Impact Lens by removing the protective film on both sides and then squeezing it from the sides to insert it under the side tabs on the Weld Visor.

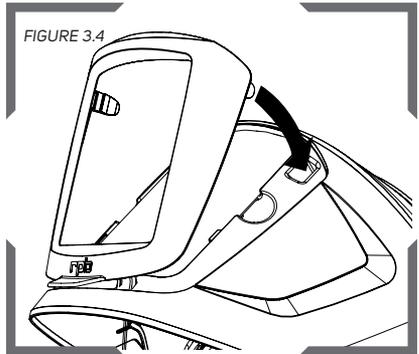
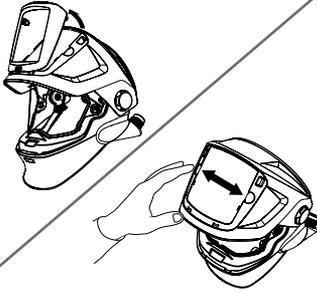


FIGURE 3.4

Place the green ADF Retainer back over the Impacts Lens by inserting the bottom guides and rotating in until the clips are securely snapped in place.

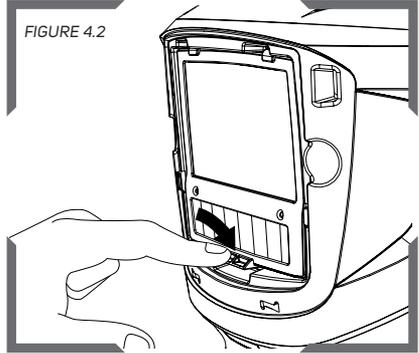
## ADF LENS REPLACEMENT AND CLEANING

FIGURE 4.1



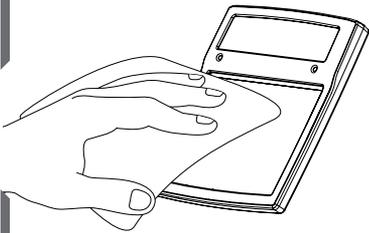
Follow steps 3.1 and 3.2 remove the ADF Retainer and the Impact Lens.

FIGURE 4.2



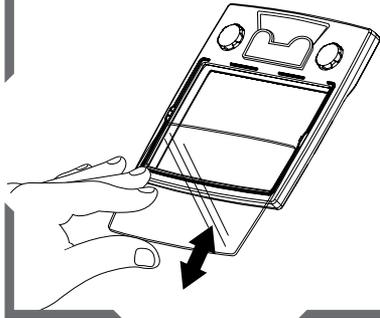
Press the down on the clip at the bottom of the ADF so that the ADF can slide out.

FIGURE 4.3



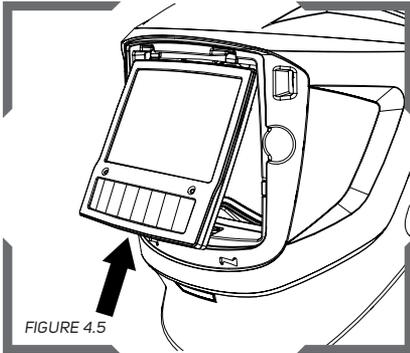
Once removed, the ADF can be cleaned with a soft tissue or a cloth soaked in mild detergent (or alcohol).

FIGURE 4.4

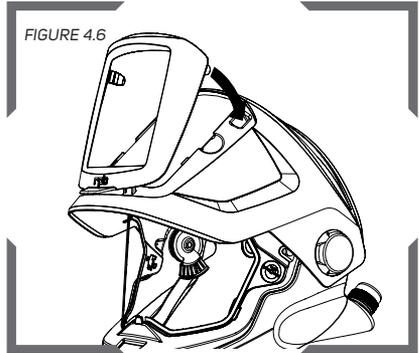


To replace the Rear ADF Lens, slide the lens out and replace it with a new one.

## RESPIRATOR SETUP AND CARE CONTINUED

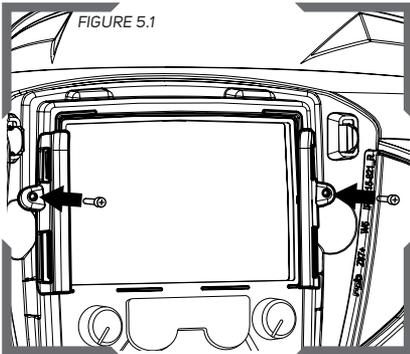


Place the cleaned or new ADF Lens into the Weld Visor with the solar panel towards the bottom and clip it in. Then replace the Impact Lens and reattach the green ADF Retainer.

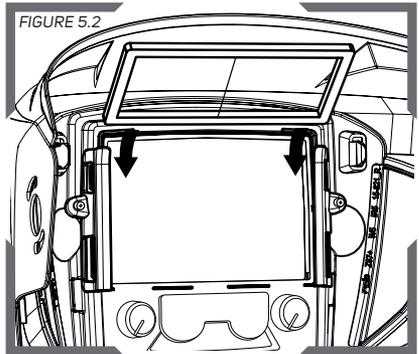


Place the green ADF Retainer back over the Impacts Lens by inserting the bottom guides and rotating in until the clips are securely snapped in place.

## MAGNIFYING LENS



With the screws supplied, screw the left lens bracket into place by tightening the screws firmly without over tightening. Then screw in the right bracket.

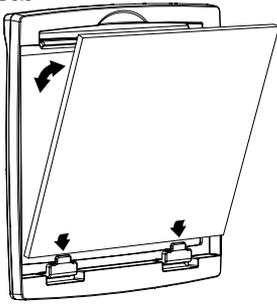


To install the magnifying lens for welding, slide the lens up into the brackets at an angle until it is securely in the brackets.

## INSTALL/REPLACE FIXED SHADE WELDING LENS

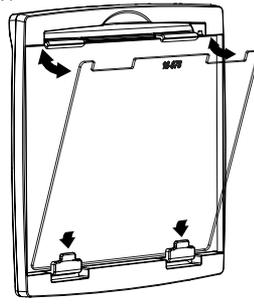
The fixed shade lens and frame can be used in place of the ADF for welding and other applications requiring light filtering. Choose an appropriate shade lens depending on the application. Install the lens frame with a lens installed into the Z4 the same way as installing an ADF. Do not use the Z4 without an ADF or a fixed shade lens in place.

FIGURE 5.3



To install a fixed shade lens into the frame, slide the lens into the long tab at an angle from the back. Then rotate the lens down until it securely clips into the frame. To remove the lens, un-clip the bottom edge and slide out.

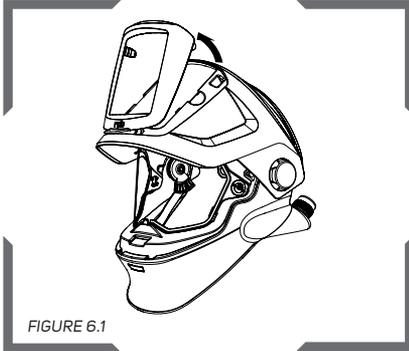
FIGURE 5.4



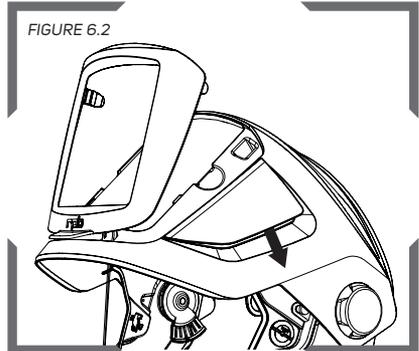
The inner protective lens can be placed into the frame after the fixed shade lens to help protect the inner surface when the weld visor is lifted up to grind welds, etc.

## RESPIRATOR SETUP AND CARE CONTINUED

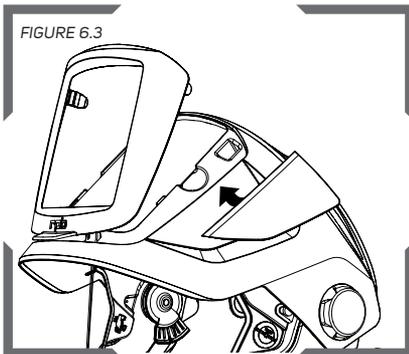
### SIDE WINDOW REPLACEMENT



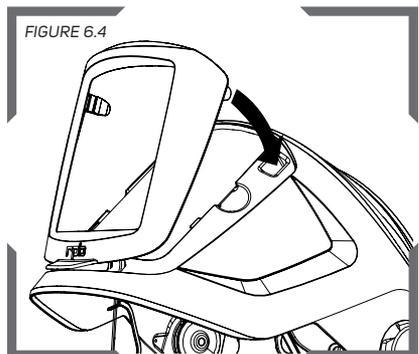
To replace the side windows, lift up the weld visor, unlatch the green ADF Retainer from the Face Shield by pushing the tabs apart and pushing forward.



From the inside of the Weld Visor, unclip and rotate the side windows to the outside.



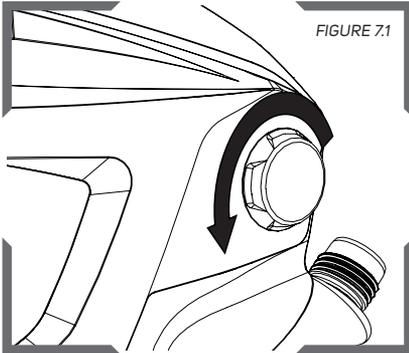
From the outside of the Weld Visor, rotate in the replacement side windows, making sure they are fully pressed in with no light showing around the edges.



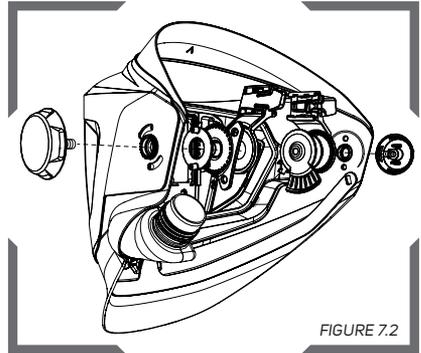
Place the green ADF Retainer back over the Impacts Lens by inserting the bottom guides and rotating in until the clips are securely snapped in place.

There are two sets of side windows. One set is shade 5 tinted. The other set is solid gray to block light and distractions from the sides.

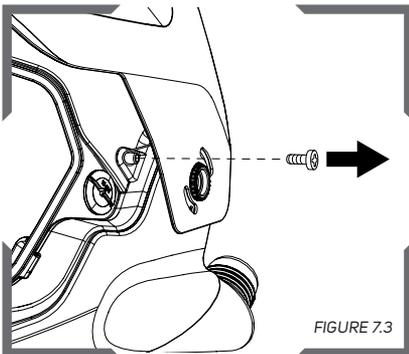
## WELD VISOR REPLACEMENT



Turn the green adjustment knobs counter-clockwise to loosen until they are able to be removed.



When the adjustment knobs are removed, the head harness, brackets, and components can be removed.



Remove the screw that attaches the spring to the grinding visor on each side. Remove the Weld Visor by sliding each side off of the Face Shield.

Place the new Weld Visor onto the Face Shield. Screw in the screws to attach the springs on the Weld Visor onto the Face Visor. Then place the Adjustment Washer, Mounting Bracket, and the Pivot Nut on the inside of the Face Shield. Secure them by tightening the Adjustment Knob onto the outside of the Weld Visor. Be sure to use the Adjustable Pivot Nut on the right side.

## RESPIRATOR SETUP AND CARE CONTINUED

### SAFETY LENS REPLACEMENT

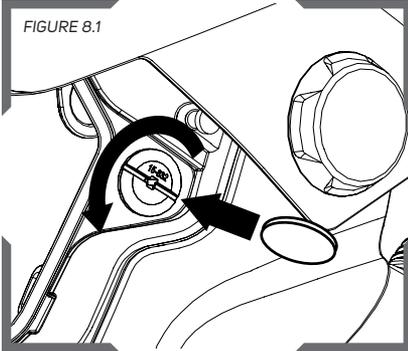


FIGURE 8.1

Lift up the Weld Visor. Using a coin or an hex key, twist the green knobs that secure the Safety Lens to remove them and then remove the lens.

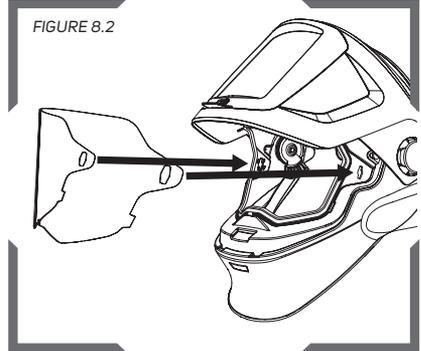


FIGURE 8.2

Remove the protective film from the inside of the lens. Place the lens against the seal and insert the knobs into the slots and twist them to lock into place, securing the Safety Lens. Remove the protective film from the outside of the Safety Lens.

### HEAD HARNESS ADJUSTMENT

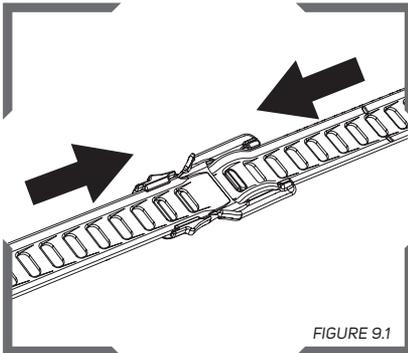


FIGURE 9.1

To adjust the top straps on the head harness, push the two straps together to tighten.

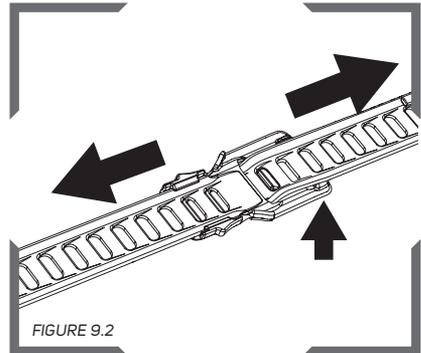


FIGURE 9.2

To loosen the top straps, unclip the end tabs from over the strap. Then pull the straps apart to the desired notch. Then clip the tabs back over the strap to hold it securely.

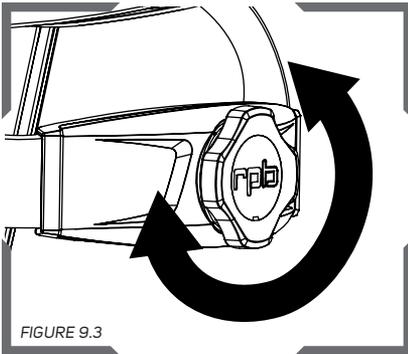


FIGURE 9.3

The head harness can also be adjusted with the ratchet adjuster on the back of the headband. Turn the knob to tighten and loosen the headband.

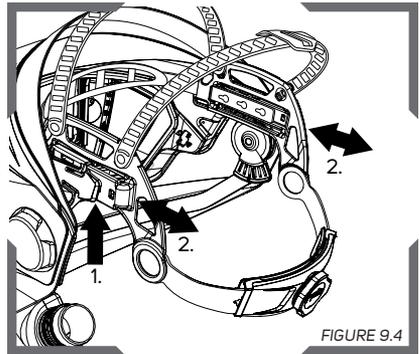


FIGURE 9.4

The head harness can also be move forwards and backwards within the Weld Visor. 1. Pull the tab on sides out. 2. Slide the head harness forward or backward to find the most comfortable position.

### BUMP CAP INSTALL

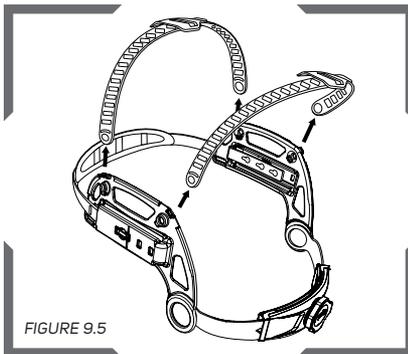


FIGURE 9.5

Remove the top straps from the side mounts.

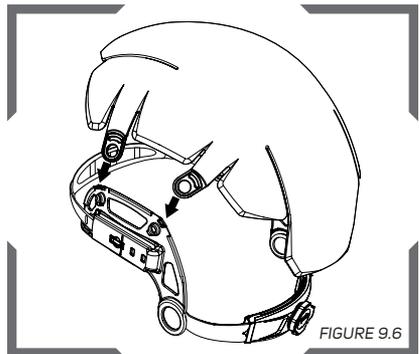


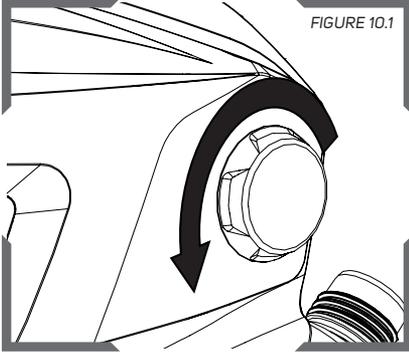
FIGURE 9.6

Attach the Bump Cap to the side mounts on the connection points that were used for the top straps.

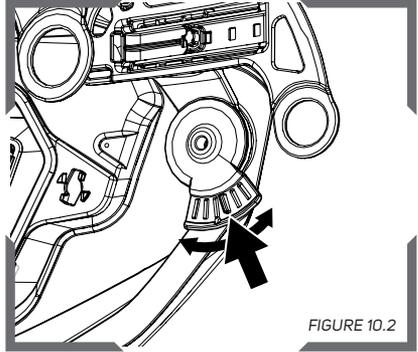
Install the Bump Cap Head Harness Assembly into the Z4 making sure it is completely inside of the face seal or shoulder cape so that the positive pressure zone is not interrupted.

## RESPIRATOR SETUP AND CARE CONTINUED

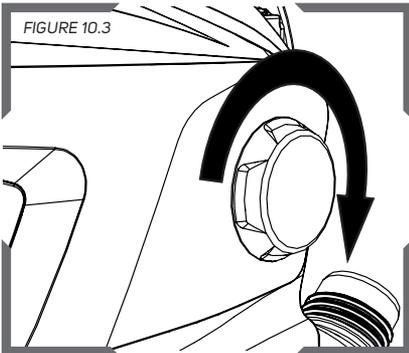
### WELD VISOR ANGLE ADJUSTMENT



To adjust the angle of the Weld Visor to the wearers face, loosen the adjustment knobs, without removing them, on the outside of the Weld Visor.



Rotate the visor to the desired angle using the notches on the right side adjustment bracket from the inside of the Z4.



Once the angle is adjusted, tighten the adjustment knobs back up to secure the visor in place.

## **BROW PAD REPLACEMENT, CLEANING AND DISINFECTING**

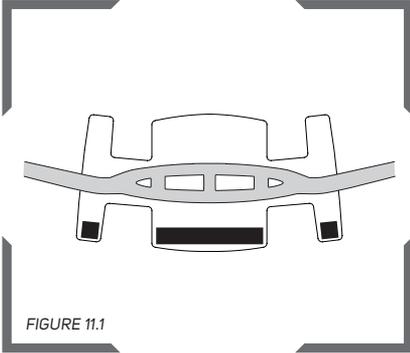


FIGURE 11.1

Place the brow pad onto the inside of the front strap of the head harness. Fold the top and bottom over and secure the hook and loop tabs. The brow pad can be cleaned and disinfected by washing with warm water and mild detergent, rinse and let air dry.

## **WELD VISOR CLEANING AND DISINFECTING**

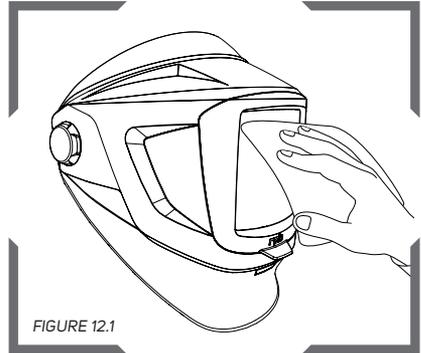
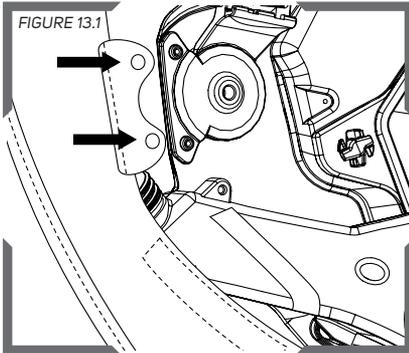


FIGURE 12.1

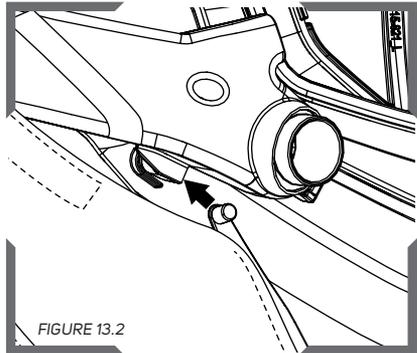
Clean and disinfect the shell of the weld visor with a disinfecting wipe or mild household cleaner and a soft cloth. Be sure not to get the ADF Lens wet.

## RESPIRATOR SETUP AND CARE CONTINUED

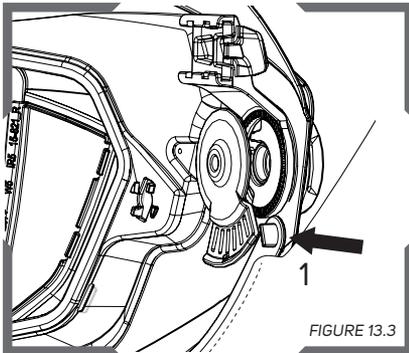
### FACE SEAL INSTALLATION



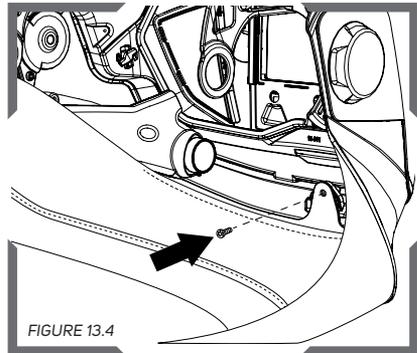
Loosen the left side adjustment knob and attach the two holes in the face seal over the bosses under the bracket. Tighten the adjustment knob back up.



Insert the tab on the left side of the face seal band into the slot underneath the air intake. Press together the hook and loop over the air intake to seal them together.

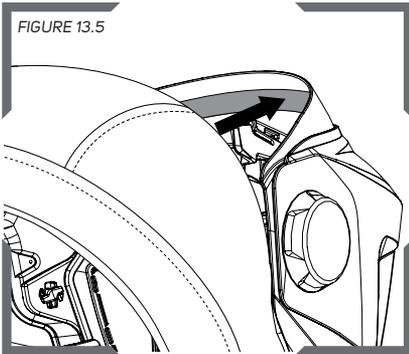


Loosen the right side adjustment knob. 1. Pull the adjustment nut on the inside off of the adjustment notch and slide the face seal band onto the notch. Push the adjustment nut back onto the desired angle notch and retighten the adjustment knob on the outside.



In the center of the visor, insert the screw through the hole in the face seal band, the front clip, and into the screw hole in the visor. Press together the hook and loop on the band and on the inside of the face shield to insure a good seal.

FIGURE 13.5



Line up the center of the top part of the face seal and the face shield and attach the hook and loop along the edge. Press together firmly to insure a good seal.

#### **CLEANING AND DISINFECTING**

The cape and face seals can be cleaned and disinfected by washing in a washing machine or with warm water and mild detergent, rinse thoroughly and let air dry.

## **AUTO-DARKENING WELDING PROTECTION FILTER**

### **OPERATION**

GVS-RPB auto-darkening welding filters operate on the basis of a liquid crystal light shutter that protects the welder's eyes against intense visible light emitted during the welding process. In combination with the permanent passive IR/UV filter, it protects against hazardous infrared (IR) and ultraviolet (UV) light. The protection against harmful radiation is present regardless of the shade level or potential malfunction of the filter, beyond the darkest shade number marked on each specific model.

GVS-RPB auto-darkening welding filters are manufactured according to ANSI/ISEA Z87.1, EN 379 requirements and are CE certified. They are not intended to be used as a protection against impacts, flying particles, molten metals, corrosive liquids or hazardous gases.

Replace potentially malfunctioned or damaged auto-darkening welding filters (check that the auto-darkening filter turns dark if you strike the welding arc).

### **USAGE**

An auto-darkening welding filter built into a Respirator is considered to be Personal Protection Equipment (PPE) protecting the eyes, face, ears and neck against direct and indirect hazardous light of the welding arc. There should be no tension on the ADF Lens caused by the Z4 visor, as it could cause severe damage to the filter. Make sure that solar cells and photo-sensors are not covered by any part of the helmet, as this could prevent the proper operation of the filter.

### **FIELD OF APPLICATION**

GVS-RPB Auto darkening filters are suitable for all types of electro-welding: covered electrodes, MIG/MAG, TIG/WIG, plasma welding, and cutting, except for gas welding and laser welding.

### **FUNCTIONS**

GVS-RPB filters are supplied ready for use. Check the degree of required protection for specific welding procedure and select the recommended shade, light sensitivity as

## AUTO-DARKENING WELDING PROTECTION FILTER CONT'D

well as opening time delay.

### SHADE ADJUSTMENT

Our model enables shade adjustment range from 9 to 13. It can be adjusted by the knob »Shade« which is located on the filter.

### ADJUSTMENT OF SENSITIVITY

Most welding applications can be performed with welding light sensitivity set to maximum. The maximum sensitivity level is appropriate for low welding current work, TIG, or special applications. The welding light sensitivity has to be reduced only in some specific surrounding lighting conditions in order to avoid unwanted triggering. As a simple rule for optimum performance, it is recommended to set sensitivity to the maximum at the beginning and then gradually reduce it, until the filter reacts only to the welding light flashes and without annoying spurious triggering due to ambient light conditions (direct sun, intensive artificial light, neighboring welder's arcs etc.)

### OPENING TIME DELAY ADJUSTMENT:

The opening time delay can be adjusted from 0.15 to 1.0 seconds. It is recommended to use a shorter delay with spot welding applications and a longer delay with applications using higher currents and longer welding intervals. Longer delay can also be used for low current TIG welding in order to prevent the filter opening when the light path to the sensors is temporarily obstructed by a hand, torch, etc.

### STORAGE

When not in use the Auto-Darkening Filter should be stored in a dry place within the temperature range of -4°F (-20°C) to +157°F (70°C). Prolonged exposure to temperatures

above 113°F (45°C) may decrease the battery lifetime of the auto-darkening welding filter.

It is recommended to keep the solar cells of the auto-darkening welding filter in the dark or not exposed to light during storage in order to maintain power down mode. This can be achieved by simply placing the filter face down on a storage shelf.

### MAINTENANCE AND CLEANING

It is always necessary to keep the solar cells and the light sensors of the auto-darkening welding filter free of dust and spatters: cleaning can be done with a soft tissue or a cloth soaked in mild detergent (or alcohol).

Never use aggressive solvents such as acetone. GVS-RPB filters should always be protected from both sides by protection screens, which should also be only cleaned with a soft tissue or cloth. If protection screens are in any way damaged, they must be immediately replaced.

### PRODUCT CARE

Never place the ADF Lens or helmet on hot surfaces. Do not apply paints, solvents, adhesives or self-adhesive labels except as instructed by GVS-RPB. This product may be adversely affected by certain chemicals. Do not expose the ADF to liquids and protect it from dirt. Make sure the helmet completely blocks any accidental light. Make sure light can only enter the front of the helmet through the viewing area of the auto-darkening welding filter.

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

## WARRANTY

The warranty period of GVS-RPB ADF is three years. Failure to follow these instructions may invalidate the warranty. GVS-RPB does not accept responsibility for any issues, which may arise from applications other than welding.

## MARKINGS

The marking on the ADF indicates:

<b>3 / 9-13</b>	<b>RPB 1 / 1 / 1 / 2 / EN379</b>
Light Shade	Manufacturer
Dark Shade Range	Optical Class
	Diffusion of light class
	Homogeneity
	Angular dependence
	Number of the Standard

## SETTINGS

- **Shade level:** The shade level can be selected between 9 and 13 by rotating the shade level knob.
- **Sensitivity:** With the sensitivity knob the light sensitivity is adjusted according to the welding arc and the ambient light. The middle position corresponds to the recommended sensitivity setting in a standard situation.
- **Opening delay.** The opening delay switch, behind the battery cover, allows the opening delay to be set from dark to light. It is adjustable between 0.15 or 1.0 second. The Twilight position corresponds to the recommended delay in a standard situation.

## CHANGE THE BATTERIES

The automatic welding filter has replaceable lithium button cell batteries, type CR2032. The batteries must be replaced when the LED on the cartridge flashes.

1. Carefully remove battery cover.
2. Remove batteries and dispose of in accordance with the national regulations for special waste.
3. Use type CR2032 batteries as depicted.
4. Carefully remount battery cover.

If the automatic welding filter does not darken when the welding arc is ignited, please check battery polarity. To check whether the batteries still have sufficient power, hold the shade cartridge against a bright lamp. If the LED flashes, the batteries are empty and must be replaced immediately. If the shade cartridge does not operate correctly in spite of correct battery replacement, it must be declared unusable and must be replaced.

## SLEEP MODE

The automatic welding filter has an automatic switch-off function, which increases the service life. If no light falls on the solar cells for a period of approx. 15 minutes, the cartridge automatically switches off. To reactivate the automatic welding filter, the solar cells must be briefly exposed to daylight. If the cartridge cannot be reactivated or does not darken when the welding arc is ignited, it must be regarded as non-functional and replaced.

## EXPECTED LIFETIME

The automatic welding filter has no expiration date. The product can be used as long as no visible or invisible damage or functional problems occur.

## AUTO-DARKENING WELDING PROTECTION FILTER CONT'D

### TROUBLESHOOTING

Shade automatic welding filter does not darken:

- Adjust sensitivity
- Clean sensors and clean or change the impact lens of the helmet shell
- Check flow of light to the sensors
- Replace batteries

ADF flickers:

- Adjust sensitivity
- Replace batteries

Poor vision:

- Clean or change the impact lens of the helmet shell and automatic welding filter
- Adapt shade level to welding procedure
- Increase amount of ambient light

## RECOMMENDED SHADE LEVELS FOR VARIOUS WELDING APPLICATIONS

Figure 14.1

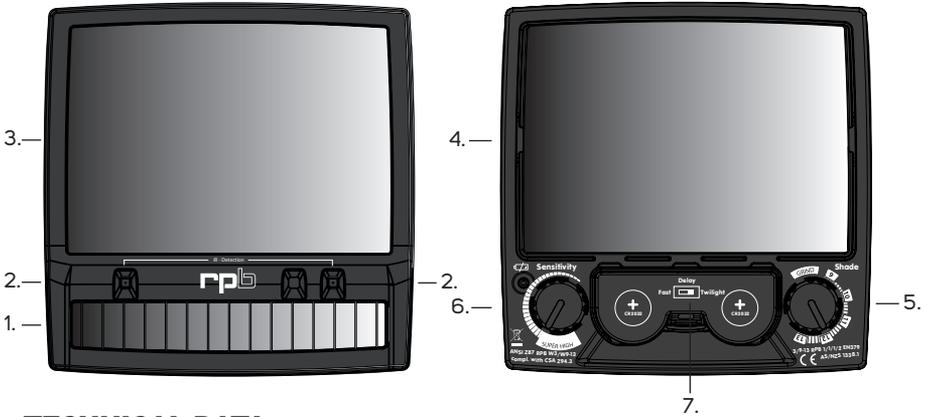
Welding Process	Current Amperes																													
	1.5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600									
MMA	8				9				10				11				12				13				14*					
MAG	8						9				10				11				12				13							
TIG				8			9			10			11			12			13											
MIG heavy metals							9				10				11				12				13				14*			
MIG light metals Stainless, Alum.											10				11				12				13				14*			
Plasma Cutting											9		10		11		12				13									
Micro Plasma Welding	4		5		6		7		8		9		10		11				12											

\*Shade 14 not achieved with this ADF.

- According to the perception of the welder it is possible to use the next higher or lower shade-number.

## DESCRIPTION OF RPB FILTER FEATURES *Figure 14.2*

1. Solar Cells
2. Photo-sensors (Photo diodes)
3. Filter housing
4. Liquid crystal shutter viewing area
5. Shade adjustment
6. Sensitivity adjustment
7. Opening time delay adjustment



## TECHNICAL DATA *Figure 14.3*

Model	RPB ADF
Viewing Area	2.66 x 3.89 in. (67.6 x 98.8 mm)
ADF overall dimensions	4.49 x 4.57 x 0.47 in. (114 x 116.2 x 11.9 mm)
Weight	4.59oz (130g)
Open state shade	3 (Bright Mode)
Closed state shade	9-13 (Dark Mode)
Switching time from light to dark	0.1 ms (23°C / 73°F) 0.1 ms (55°C / 131°F)
Switching time from dark to light	0.15s / 1.0s
UV / IR protection	Maximum protection in light and dark modes
Operating temperature	23 °F – 131 °F (-5 °C – 55 °C)
Storage temperature	-4°F – 157°F (-20°C – 70°C)
Power Supply	Solar cells, 2 pcs. replaceable 3V LI batteries (CR2032)
Classification in accordance with EN379	Optical class = 1 Scattered light = 1 Homogeneity = 1 Viewing angle dependence = 2
Standard	EN379:2003+A1:2009
Certifications	CE, ANSI, compliance with CSA

## 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. Determine if your company should establish a pre-doffing cleaning program if contaminants on the outside may be dangerous.**

### DONNING YOUR HELMET

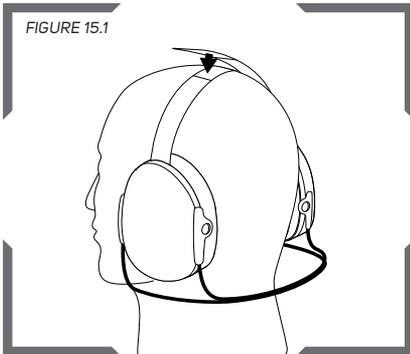
Once you have completed the set up, you are ready to fit your GVS-RPB Z4 Respirator. First, put on the slimline earmuffs, with the neckband going around the back of the neck and making sure the pads seal all of the way around the ears. Wearing earmuffs is required while using the Z4. Next, check inside the helmet to ensure that it is free of dust, dirt or contaminants. Then open the bottom of the cape or face seal, with the air flowing from the air source, put the respirator onto your head. Pull the cape down or make sure the face seal is sealing around your face/neck, then tighten the head harness ratchet to fit. Make sure the visor is securely latched.

### DOFFING YOUR HELMET

When you have finished working, keep the respirator on with air flowing into the helmet until you have left the contaminated area.

### DONNING YOUR HELMET WITH EARMUFFS

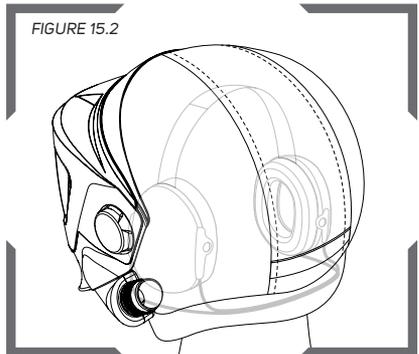
FIGURE 15.1



Put on the 16-524 RPB Quiet-Slim Ear Defenders with the neckband going around the back of the neck and making sure the pads seal all of the way around the ears. Secure the over-head band with the hook and loop strap.

Refer to the Quiet-Slim Ear Defenders Instruction Manual for more details.

FIGURE 15.2

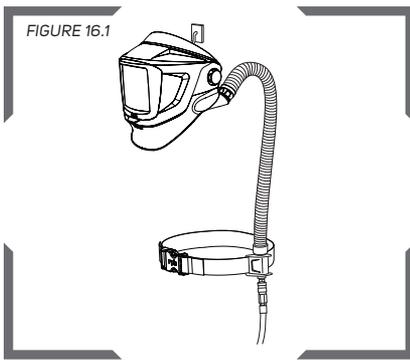


After checking inside the helmet for dust and debris, pull the Z4 on over the earmuffs. Make sure the earmuffs and neck-band are completely within the sealed area of the face seal or cape.

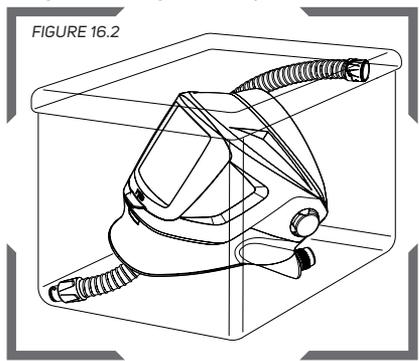
## STORAGE

After use, clean the respirator according to your company's cleaning program or the directions in this manual. Then let it dry, and store the respirator by hanging it up in a clean, dry place, away from the work area. Before storing the respirator for an extended period of time, clean the unit following the cleaning instructions in this instruction manual. It is recommended to store or transport the respirator in a container or storage bag. Store in a cool dry place between -10°C to +45°C (14°F to 113°F) <90%rh. The PX5 may need to be stored separately, refer to the PX5 Instruction manual for specific storage instructions.

After use:



Long term storage or transport:



## PRODUCT CARE INSTRUCTIONS

It is recommended to establish a regular cleaning schedule for the padding and capes to ensure good hygiene.

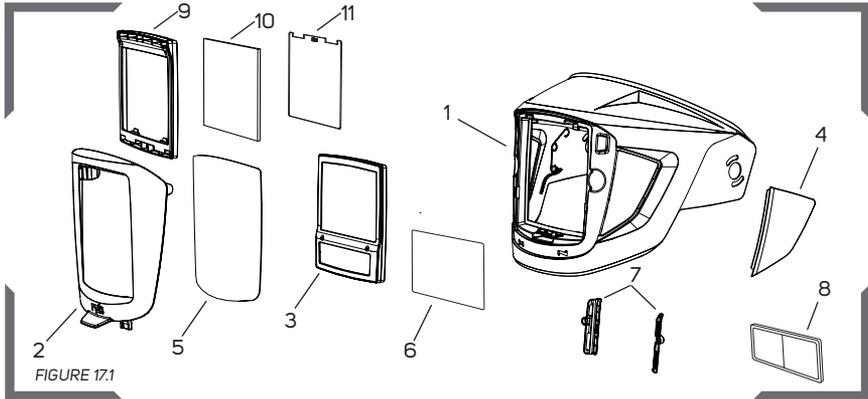
- Capes and face seals: Hand wash only with mild detergent and warm water. Hang to dry. Do not launder in a washing machine or dryer. If laundered in a washer or dryer, product life will be reduced and warranty voided.
- Padding: Hand wash only with mild detergent and warm water. Lay flat to dry.

Make sure all components are dry before use. Inspect for wear and tear and replace if damaged or excessively worn.

Do not run water or detergents inside of the breathing tube.

## PARTS AND ACCESSORIES

### WELD VISOR



Item No.	Description	Part No.
1	Weld Visor Assembly - includes 16-672 and 15-821	15-812
2	ADF Retainer	16-672
3	ADF Filter	16-871
4	Side Window Blockers - Solid Gray (Pair)	15-821
	Side Window Shade 5 (Pair)	15-821-5
5	Impact Lens (10 pack)	16-872
6	ADF Rear Lens (10 pack)	16-873
7	Magnifying Lens Holders (Pair)	16-875
8	Magnifying lens - x 1	13-072-1
	Magnifying lens - x 1.5	13-072-1.5
	Magnifying lens - x 2	13-072-2
	Magnifying lens - x 2.5	13-072-2.5
9	Fixed Shade Lens Frame	16-877
10	Fixed Shade 5 Welding Lens	16-877-5
	Fixed Shade 8 Welding Lens	16-877-8
	Fixed Shade 9 Welding Lens	16-877-9
	Fixed Shade 10 Welding Lens	16-877-10
	Fixed Shade 11 Welding Lens	16-877-11
	Fixed Shade 12 Welding Lens	16-877-12
11	Fixed Shade Rear Protective Lens	16-878



### WARNING

Use only exact, authentic GVS-RPB replacement parts (marked with the GVS-RPB logo and part number), and only in the specified configuration. Using incomplete or inappropriate equipment, including the use of counterfeit or non-GVS-RPB parts, can result in inadequate protection and will void the approval of the entire respirator assembly.

## FACE SHIELD

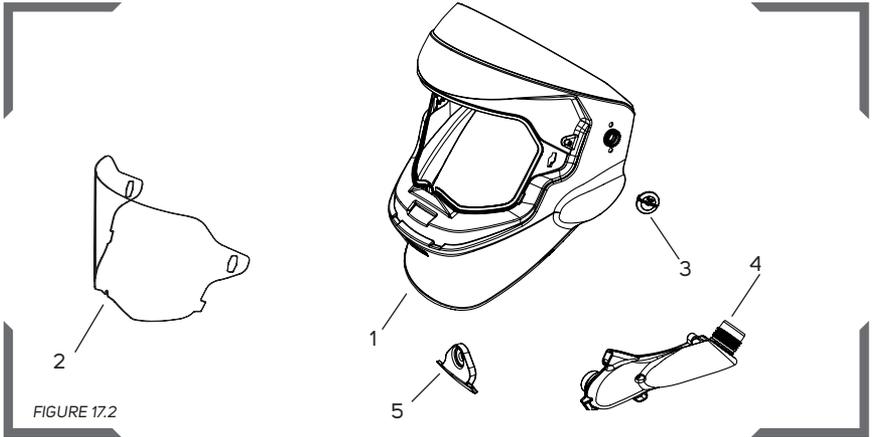


FIGURE 17.2

Item No.	Description	Part No.
1	Face Shield	15-811
2	Safety Lens (10 Pack)	15-878
3	Safety Lens Bayonet (Pair)	15-832
4	Air Intake Assembly with Screws	15-851-1
5	Front Cape Clip Cover	15-831

## ACCESSORIES

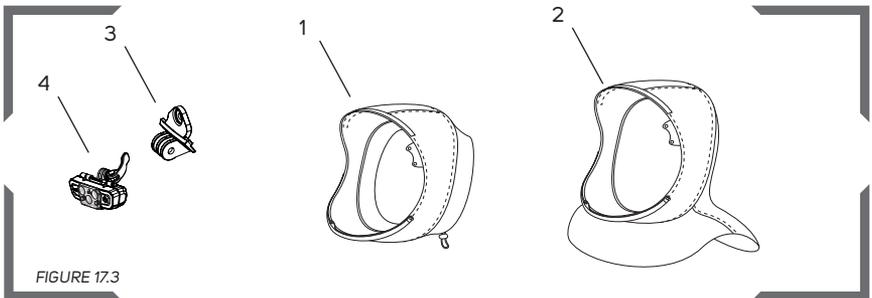


FIGURE 17.3

Item No.	Description	Part No.
1	FR Face Seal (TH2)	15-711
2	FR Shoulder Cape (TH2)	15-721
3	Front Cap Clip - Vision-Link Mount	15-839
4	Vision-Link Light	16-901

## PARTS AND ACCESSORIES CONTINUED

### HEAD HARNESS AND EARMUFFS

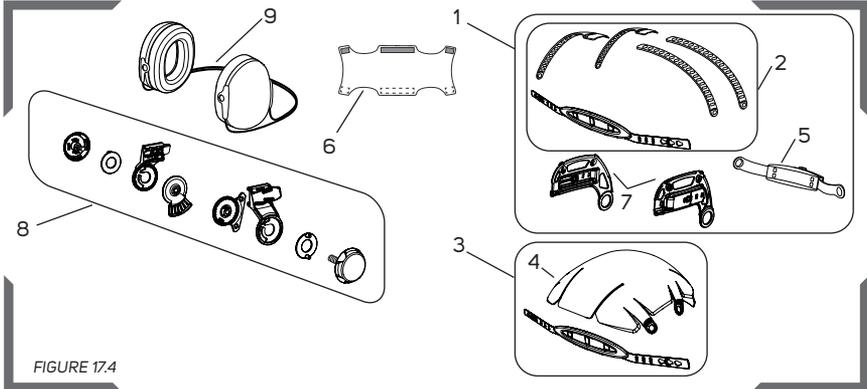


FIGURE 17.4

Item No.	Description	Part No.
1	Head Harness Assembly (Includes 16-530)	15-840
2	Head Harness Straps (Front and Top Straps with Brow Pad)	15-841
3	Bump Cap and Front Strap with Comfort Pad and Brow Pad	15-850
4	Bump Cap Replacement with Comfort Pad	15-855
5	Ratchet Assembly	16-530
6	Brow Pad	16-526
7	Side Mounts (Pair)	15-842
8	Head Harness Bracket and Adjustment System	15-830
9	Quiet-Slim Ear Defenders	18-524
10	Quiet-Slim Ear Defenders with Side Mounts (Pair)	18-525

## PAPR PARTS AND ACCESSORIES

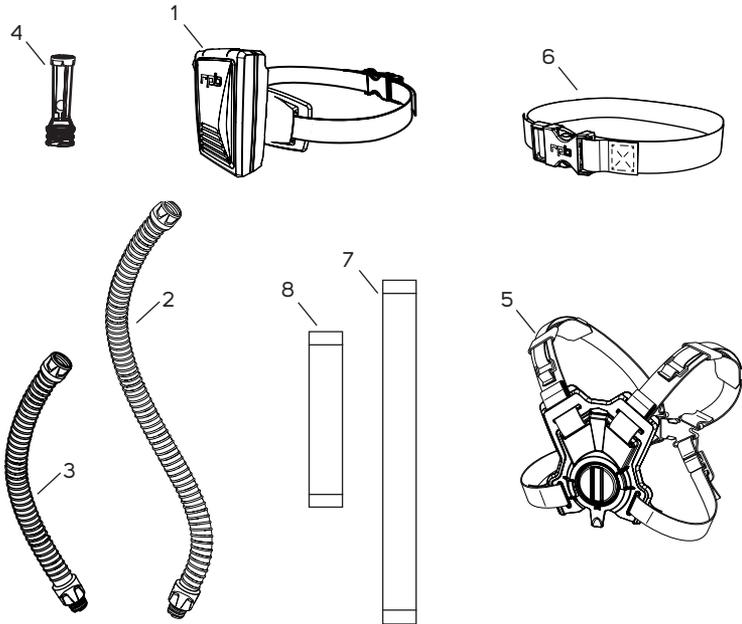


FIGURE 17.5

Item No.	Description	Part No.
1	PX5 PAPR and Belt	03-801-FR-G
2	PAPR Breathing Tube	04-831
3	Short Breathing Tube for Backpack Assembly	04-841
4	PAPR Flow Meter	03-819
5	FR Backpack Assembly	03-822-FR
6	FR 2" Belt - FR	07-765-FR
7	FR Breathing Tube Cover	04-854
8	FR Breathing Tube Cover for backpack	04-874

## 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.

## NOTES

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## NOTES

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## OTHER PRODUCTS

### VISION

The GVS-RPB® Vision-Link™ is an intuitive and unobtrusive helmet lighting system for the Z4®, Z-Link® and T-Link®. It easily attaches to the helmet, providing bright light wherever you look, advancing your safety, and increasing your productivity.



### COMMUNICATION

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



### GVS-RPB® PX5® PAPR

The GVS-RPB PX5 is a compact and versatile PAPR 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.



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