

rpb Z-LINK®

National Institute for
Occupational Safety and Health
NIOSH

INSTRUCTION MANUAL



Employers: Read this manual and the flow control device Instruction Manual and carry out the Employer Responsibilities (page 9).

Product users: Read this manual and the flow control device Instruction Manual and follow the Product User Safety Instructions (page 10).

Make sure this manual is available to all users for reference.

Español: www.rpbsafety.com/product/zlink/

**PROTECTING YOU FOR
LIFE'S BEST MOMENTS®**

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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 RPB® manuals can be found at www.rpbsafety.com.

RPB® Safety LLC is an ISO9001 certified company.

INTRODUCTION

The Z-LINK® is a multiuse respirator for a number of different applications where there is a need for protection from airborne contaminants, eye/face protection and head protection; such as welding, grinding, construction and other industrial applications. The optional Quiet-Link™ Ear Defender earmuff system can add hearing protection. The Z-LINK+® is an optional welding visor attachment. It allows the user to quickly switch between the standard configuration and the welding configuration. Additionally, the Vision-Link® light attachment is available to provide light to the work area and the Comms-Link™ in-helmet communication system allows for hands free radio communication.

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.

RPB® SAFETY - GLOBAL HEADQUARTERS

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

T: 1-866-494-4599 F: 1-866-494-4509 E: sales.us@rpbsafety.com **rpbsafety.com**

RPB® SAFETY - APAC

1 Ivan Jamieson Place, Christchurch Airport, Christchurch 8053 New Zealand.

T: +64-3-357-1761 F: +64-3-357-1763 E: sales.nz@rpbsafety.com **rpbsafety.com**

RPB® SAFETY - EMEA

Unit 2, Teardrop Industrial Park, London Road, Swanley, BR8 8TS, United Kingdom

T: +44-800-689-5031 E: sales@rpbsafety.co.uk **rpbsafety.com**

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

Form #: 7.20.541

Rev: **5**

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 9). 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 rpb-safety.com/important-safety-information/ for helpful links to OSHA and other content.

Employers: Read this manual and the air supply device Instruction Manual and carry out the Employer Responsibilities (page 9).

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

PROTECTION PROVIDED AND LIMITATIONS

RESPIRATION

The RPB® Z-LINK® is approved by NIOSH as a Type C respirator in the categories as follows:

Powered Air

The RPB® Z-LINK® Respirator, when properly fitted and used with all required components, including the Breathing Tube Assembly and the O3-901 RPB® PX4 AIR® Powered Air Purifying Respirator, is a NIOSH approved powered air purifying respirator with an assigned protection factor of 1000. 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 RPB® PX4 AIR® PAPR (see PX4 AIR® Instruction Manual).

Supplied Air

The RPB® Z-LINK® Respirator, when properly fitted and used with all required components, including the Breathing Tube Assembly, O3-101 Constant Flow Valve or the O3-500 C40™ Climate Control Device, and RPB® Breathing Air Line is a NIOSH approved respirator with an assigned protection factor of 1000. As such, it significantly reduces, but does not completely eliminate, the breathing of contaminants by the respirator wearer. Use with an airline filter, such as the O4-900 RPB® RADEX® Airline Filter. Specific protection depends on the setup of the airline filter (see the RPB® RADEX® Instruction Manual).

HAZARD LIMITATIONS

The RPB® Z-LINK® 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 19.5% 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).
- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe, 16-922 Comms-Link™ or 09-913 PTT.

FACE AND EYES:

- The Z-LINK® **Visor** with **Safety Lens** meets ANSI/ISEA Z87.1 requirements and designed for grinding, painting, and other industrial applications.
- The Z-LINK® **Welding Visor** with **Impact Lens** and Auto-Darkening Welding Protection Filter (ADF) meets ANSI/ISEA Z87.1 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 31) for information about ADF capabilities and use. Use an approved RPB® welding cape for adequate protection from sparks, debris, and light flashes.
- The Z-LINK® is not designed or tested to provide protection against molten metals or corrosive liquids.
- **Note:** the Z-LINK® does not protect against the potential transfer of impact to glasses worn underneath the 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.

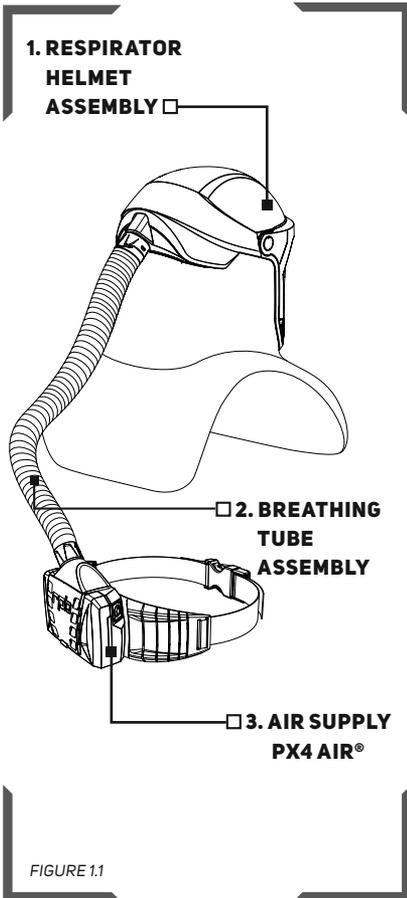
HEAD:

- The Z-LINK® meets the ANSI/ISEA Z89.1 requirements for physical head protection as a hard hat. The helmet is designed to provide limited head protection by reducing the force of falling objects striking the top of the head. Ensure the helmet is adjusted to properly fit the user by adjusting the head harness and sidepads or Quiet-Link™ if installed.

HEARING:

- When used with the Z-LINK®, the Quiet-Link™ Ear Defender system provides a Noise Reduction Rating (NRR) of 25db. Refer to the Quiet-Link™ instruction manual to ensure proper installation and fit.
- If Quiet-Link™ is not used, other hearing protection, such as earplugs, must be properly fitted and worn where noise levels exceed the OSHA permissible exposure levels.

RESPIRATOR COMPONENT DIAGRAM - PAPR



NIOSH - CAUTIONS AND LIMITATIONS

POWERED AIR

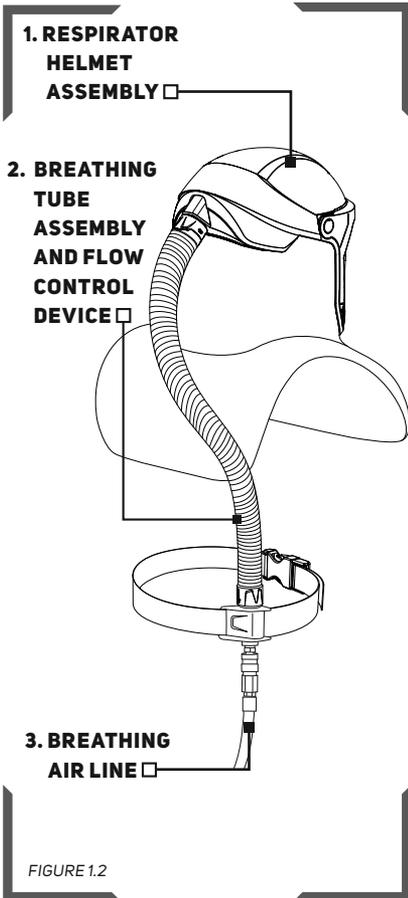
- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use

concentrations established by regulatory standards.

- F. Do not use Powered Air-Purifying Respirators if airflow is less than four cfm (115 lpm) for tight fitting face pieces or six cfm (170 lpm) for hoods and/or helmets.
- 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 MSHA, OSHA, and other 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. NIOSH does not evaluate respirators for use as surgical masks.
- S. Special or Critical User Instructions and/or specific limitations apply. Refer to "S-Special or Critical User Instructions" in the PX4 Air® Instruction Manual before donning.

PLACE NIOSH APPROVAL LABEL HERE.

RESPIRATOR COMPONENT DIAGRAM - SAR



NIOSH - CAUTIONS AND LIMITATIONS

SUPPLIED AIR

- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.
- C. Do not exceed maximum use concentrations established by regulatory standards.
- D. Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E. Use only the pressure ranges and hose lengths specified in the user's instructions.
- 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 MSHA, OSHA, and other 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's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- S. Special or Critical User Instructions and/or specific limitations apply. Refer to "S-Special or Critical User Instructions" on page 14 before donning.

AIR SOURCE, FITTINGS, AND PRESSURE

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 OSHA and other governing bodies. Follow the PX4 AIR® PAPR Instruction Manual for more details.

Supplied Air

Locate the air source in a clean air environment, always use a filter on the inlet of your air source. Make sure the air source is somewhere that vehicles, forklifts, and other machinery are not running near the air inlet, as this will cause carbon monoxide to be drawn into your air supply. Always use suitable after coolers/dryers with filters and carbon monoxide alarms to ensure clean breathable air is supplied at all times. A Radex® Airline Filter (04-900) and a GX4® Gas Monitor (08-400) are recommended. The air should be regularly sampled to ensure that it meets Grade D requirements.

AIR QUALITY

This respirator must be supplied with clean breathable air at all times. Breathable air must at least meet the requirements for Type 1 gaseous air described in the Compressed Gas Association Commodity Specifications G.7.1 (Grade D or higher) and as specified by Federal Law 42 CFR 84, subpart J.84.141(b) and 29 CFR 1910.134 (i). The RPB® Z-LINK® does not purify air or filter contaminants. A carbon monoxide monitor must be used at all times.

DANGER

Do not connect the respirator's air supply hose to nitrogen, toxic gases, inert gases or other unbreathable non-Grade D air sources. Check the air source before using the respirator. This apparatus is not designed for use with mobile air supply systems i.e. cylinders. Connecting the supply hose to a non-breathable air source will result in serious injury or death.

BREATHING AIR SUPPLY HOSES AND FITTINGS

RPB® air supply hoses and fittings must be used between the point of attachment and the respirator breathing air connection at the wearer's belt. The hose sections must be within the correct length and the amount of sections must be within the number specified in the breathing air pressure table on page 14.

BREATHING AIR PRESSURE

The air pressure must be continually monitored at the point of attachment. Air pressure must be read from a reliable pressure gauge whilst the respirator has air flowing through it.

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, 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 rpb-safety.com/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.
- A written respiratory protection program in accordance with applicable standards and regulations (e.g., OSHA 29 CFR 1910.134; ANSI/ASSE Z88.2; CSA Z94.4, etc.).

■ 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 PX4 AIR® PAPR or flow control device 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 OSHA 29 CFR 1910.134.

- **Train employees in the Z-LINK®'s use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the RPB® Z-LINK® per ANSI/ASSE Z88.2 guidelines to provide training:

Section 8.1 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;

EMPLOYER RESPONSIBILITIES CONTINUED

- c) have an understanding of the site's respirator program; and
- d) be knowledgeable of applicable regulations.

Train each Z-LINK® 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 flow control device Instruction Manual and standard or regulatory requirements. Ensure that each intended user reads both 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 RPB®.**

■ Call Customer Service Department at:

Tel: 1-866-494-4599

Email: customerservice@rpbsafety.com

Web: rpbsafety.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 PX4 AIR® PAPR or the flow control device Instruction Manual (additional copies available at www.rpbsafety.com/resources/) and 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.

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 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 Z-LINK® to serve as a complete NIOSH approved respirator:

- Respirator Helmet Assembly (Z-LINK®)
- Breathing Tube Assembly
- Flow Control Device (PX4 AIR®, Constant Flow Valve, or C40™ Climate Control Device)
- Breathing Air Line (Supplied Air)

See *Respirator Component Diagram* (page 6-7). The RPB® Z-LINK® is only approved to be used with the RPB® PX4 AIR® PAPR, RPB® Constant Flow Valve, or RPB® C40™ Climate Control Device. Use only authentic RPB® brand parts and components that are part of the NIOSH 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 NIOSH 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 helmet or 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 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.

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 and for the Z-LINK+® this includes the 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 - Standard Configuration* (page 16) or *Respirator Setup and Use - Z-LINK+® Welding Configuration* (page 26). See *Donning* (page 35) for fit information.

VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY

Verify that the Z-LINK® 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 Z-LINK®:

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 OSHA, EPA, or NIOSH regulations and recommendations for powered air purifying respirators or supplied air respirators.

PRODUCT USER SAFETY INSTRUCTIONS CONTINUED

Filtering the breathing air:

- **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 PX4 AIR® PAPR Instruction Manual.
- **SAR:** Once the contamination levels have been confirmed, check to make sure the airline filter is working correctly. Follow the Radex® Airline Filter 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 OSHA and other governing bodies. For Supplied Air, it is recommended to use a GX4® Gas Monitor. Follow the GX4® Gas Monitor Instruction Manual.

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 19.5% oxygen.
- Contaminants are in excess of regulations or recommendations.
- Contaminants or contaminant concentrations are unknown.
- Work area is poorly ventilated.
- The work area is a confined space (unless proper measures are taken for confined spaces).
- The temperature is outside the range of 14°F to 140°F (-10°C to +60°C).
- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe, 16-922 Comms-Link™ or 09-913 PTT.

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 6 cfm (170 lpm).
- Breathing becomes difficult.
- You become dizzy, nauseous, too hot, too cold, or ill.
- Your eyes, nose, or skin become irritated.
- The work area is a confined space (unless proper measures are taken for confined spaces).
- 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 RPB®. This product may be adversely affected by certain chemicals.

See the “Respirator Setup and Care” section for more specific cleaning instructions.

INSTRUCTIONS FOR SPECIFIC USES OR ENVIRONMENTS

Welding

See Operator Setup and Use - Z-LINK+® Welding Configuration (page 26) and ADF Operation (page 31) 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 33). 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 32). 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.

Welding and Grinding

For welding and grinding applications that produce sparks, be sure to use the FR (Fire Retardant) specific model of the PX4 AIR® with the FR belt and spark arrestor in place, see the PX4 AIR® Instruction Manual. Use a RPB® Zytac® face seal or shoulder cape for protection from sparks, debris, and light flashes. Make sure all skin, such as the neck, is covered to prevent UV radiation and burns.

Confined Spaces

If this respirator is used in confined spaces, ensure the area is well ventilated and that all contaminant concentrations are below those recommended for this respirator. 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. A pressure-demand SCBA or a multifunctional pressure-demand supplied-air respirator with self-contained air supply shall be used during welding in confined spaces when welding can reduce the ambient oxygen level and supplemental ventilation and atmospheric monitoring are not provided according to 29 CFR 1910.146 and ANSI/ASSE Z117.1. For more information on respirator types refer to annex A.2 of Z88.



WARNING

Do not use the Z-LINK® 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.

BREATHING AIR PRESSURE TABLE

S - SPECIAL OR CRITICAL USERS INSTRUCTIONS - SAR TABLE 1.1

This table lists air pressure ranges needed to provide the RPB® Z-LINK® with the volume of air that falls within the required range of 6-15cfm or 170-425 lts/min according to U.S government regulations.

1. AIR SOURCE	2. AIR SUPPLY HOSE	3. FLOW CONTROL DEVICE USED WITH 04-830 BREATHING TUBE ASSEMBLY	4. SUPPLY HOSE LENGTH (FT)	5. MAX NUMBER OF SECTIONS	6. PRESSURE RANGE (PSIG AIR)
Portable or Stationary Compressor	NV2028 (25ft) NV2029 (50ft) NV2027 (100ft) 04-352-25-RZ (25ft) 04-352-50-RZ (50ft) 04-352-100-RZ (100ft)	03-101 Constant Flow Valve Assembly (High Pressure)	25	1	10 - 14
			50	1	12 - 14
			100	2	17 - 19
			150	3	21 - 23
			200	4	25 - 27
			250	5	28 - 31
	300	6	31 - 34		
	03-500 C40 Climate Control Assembly	25	1	50 - 80	
		50	1	55 - 85	
		100	2	60 - 95	
		150	3	65 - 95	
		200	4	70 - 100	
250		5	75 - 100		
300	6	85 - 100			
04-342-25 (25ft) 04-342-50 (50ft) 04-342-100 (100ft)	03-101 Constant Flow Valve Assembly (High Pressure) with Schrader Fitting	25	1	18-20	
		50	1	22-24	
		100	2	26-28	
		150	3	30-32	
		200	4	34-36	
		250	5	38-40	
300	6	42-44			
03-500 C40 Climate Control Assembly with Schrader Fitting	25	1	60-80		
	50	1	65-85		
	100	2	70-95		
	150	3	75-95		
	200	4	80-100		
	250	5	85-100		
300	6	95-100			

⚠ WARNING

Make sure you understand the Breathing Air Pressure table before using this respirator.

1. Use the correct air source. Do not use an ambient air pump, as it does not supply enough pressure (column 1).
2. Confirm the part number of the air supply hose (column 2) and the flow control device (column 3) you are using.
3. Check your RPB® Safety Air Supply Hose is within the correct length (column 4) and the correct number of hose sections (column 5).
4. Set the air pressure at the point of attachment within the range specified (column 6).

Make sure air is flowing through your respirator when setting the air pressure.

Failure to supply the minimum required air pressure at the point of attachment for the length of air supply hose will decrease the level of protection provided. In addition, could result in contaminants being inhaled as the pressure in the helmet may become negative due to peak inhalation flow when working at very high work rates. Low airflow will decrease the level of protection provided.

If the Breathing Air Lines and Flow Control Device have RZ™ fittings, they will only attach to other RZ™ fittings. They will not work with Universal Couplers. Do not modify air line fittings. RZ™ fittings prevent connection to unsafe air sources.

RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION

CONNECT THE AIR SUPPLY - POWERED AIR

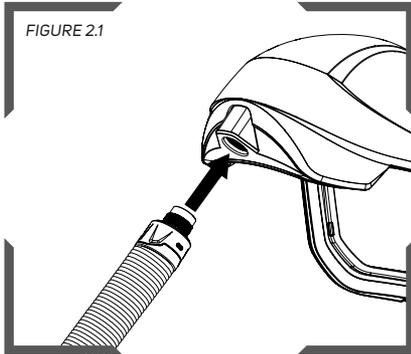


FIGURE 2.1

Insert the threaded end of the breathing tube (04-835) into the threaded hole in the back of the Z-LINK® and screw the breathing tube in completely without over tightening.

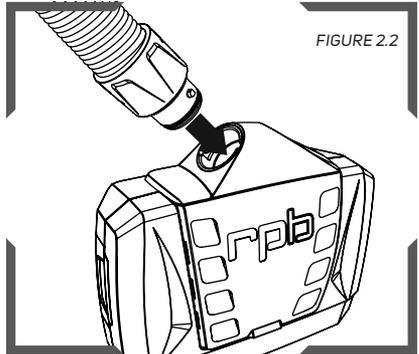


FIGURE 2.2

Insert the bayonet end of the breathing tube into the outlet of the PX4 AIR® PAPR and twist it in until it is secure.

FOR USE WITH RPB® PX4 AIR® - SEE THE PAPR USER MANUAL

When the Z-LINK® Respirator is being used in conjunction with the RPB® PX4 AIR® PAPR, please refer to the RPB® PX4 AIR® PAPR Instruction Manual for set up and use of the assembly.

Note: The RPB® PX4 AIR® 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.

⚠ WARNING

The Z-LINK® Supplied Air Respirator must be supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality that meets OSHA or other governing body requirements.

CONNECT THE AIR SUPPLY - SUPPLIED AIR

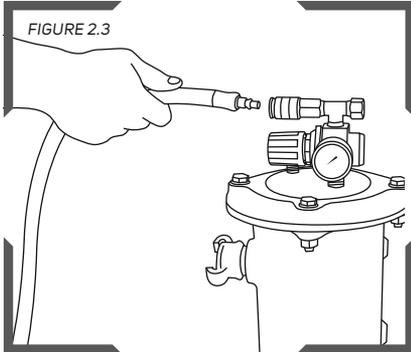


FIGURE 2.3

Connect the Breathing Air Supply Hose to the point of attachment (04-900 Radex® Airline Filter) shown.

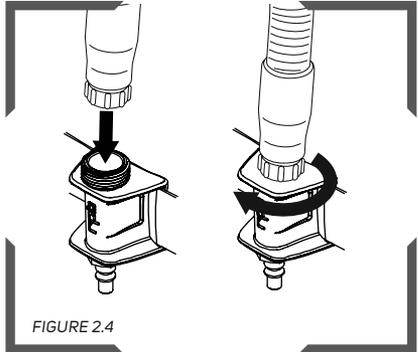


FIGURE 2.4

Connect the Breathing Tube to the flow control device.

NOTE:

Check the hose connections for any air leaks and tighten if necessary – replace any worn parts.

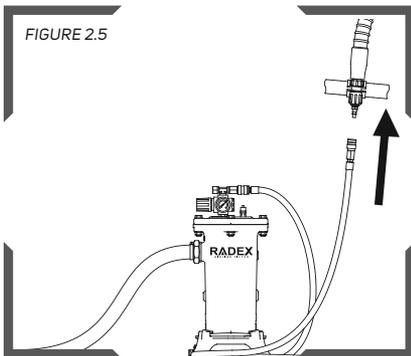


FIGURE 2.5

Now connect the Breathing Air Supply Hose to the Flow Control Device. Air should be now flowing through the Respirator.

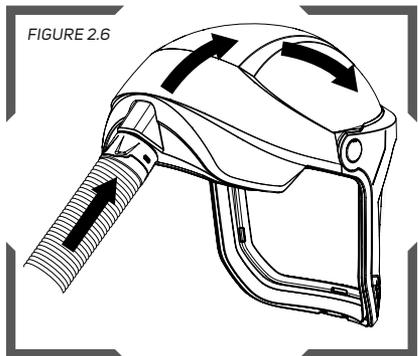
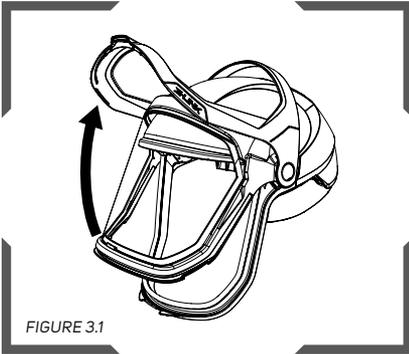


FIGURE 2.6

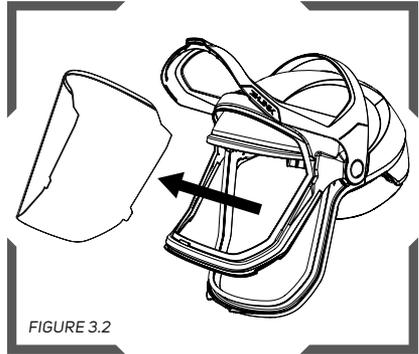
With air flowing through the respirator adjust the air pressure at the point of attachment to the recommended pressure as specified in the Breathing Air Pressure Table (page 14).

RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

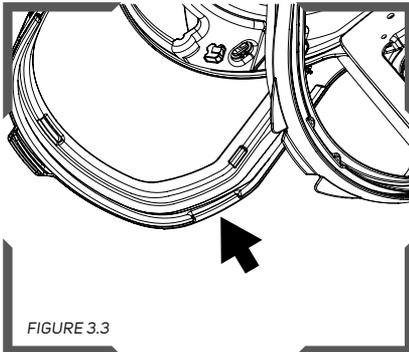
LENS REPLACEMENT



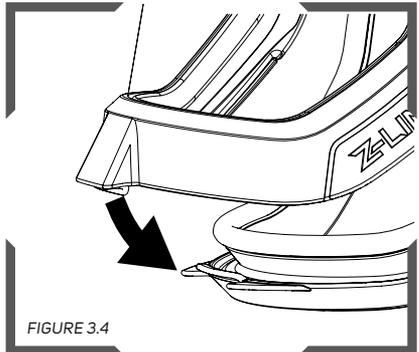
To replace the Safety Lens, lift up the visor, unlatch the inner visor from the outer visor and open them apart.



Pull out the lens and insert a new Safety Lens making sure the tabs of the lens are in all four attachment points on the visor and the lens is inside of the guide along the bottom front edge of the visor.

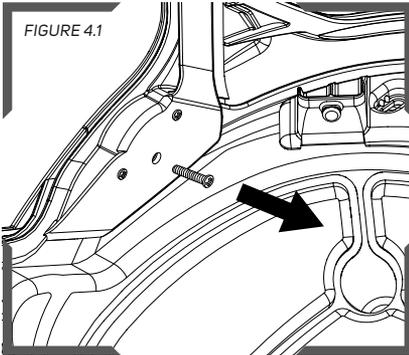


Close the outer visor over inner visor and lens, making sure the latches at the corners are secure.

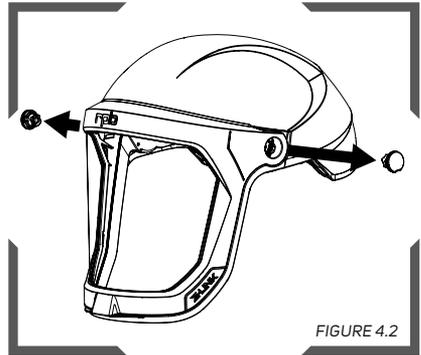


Close the visor making sure it LATCHES SECURELY to the front of the jaw. Listen for the visor latching over the tab on the front of the jaw.

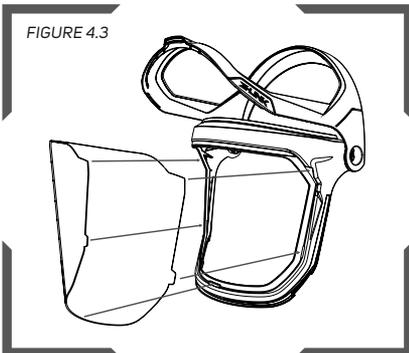
VISOR REPLACEMENT



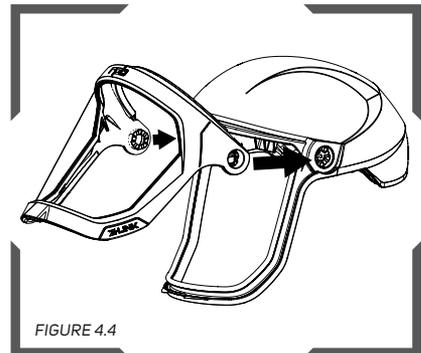
To replace the Visor, from inside of the helmet, unscrew the center screw from the visor pivot point on each side.



Remove the cap, pivot pin, and spring from the visor on both sides. Pull the visor out of the pivot points and remove from the helmet.



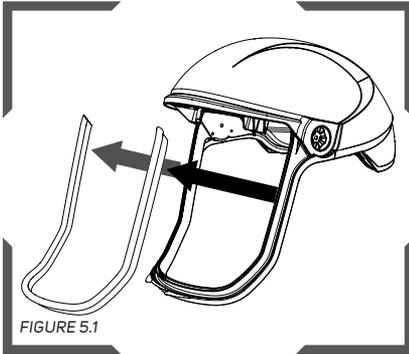
To attach the Visor, insert the selected Safety Lens into the inner visor and secure the inner and outer visors together.



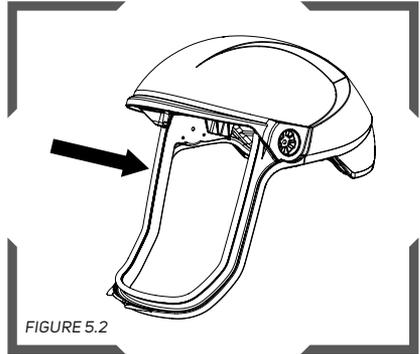
Place the visor onto the helmet pivot points, insert the pivot pins and springs, then screw in the attachment screws from the inside of the helmet until tight.

RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

VISOR SEAL REPLACEMENT

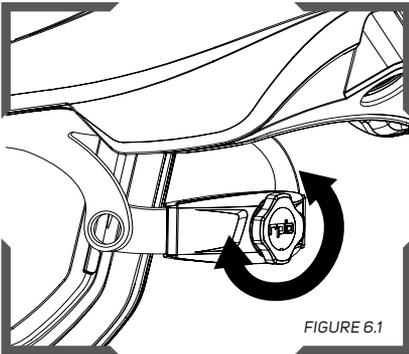


The visor seal can be replaced by pulling it out of the track around the visor opening.

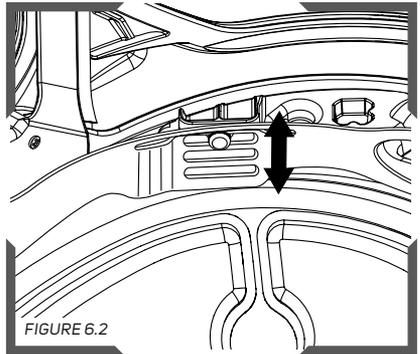


Starting from one of the top corners, insert the new visor seal by pressing the edge into the track all of the way around the visor opening.

HEAD HARNESS ADJUSTMENT



The head harness can be tightened or loosened using the ratchet knob on the back of the headband.



The height of the head harness can be adjusted at the four attachment points by switching which of the three slots is used.

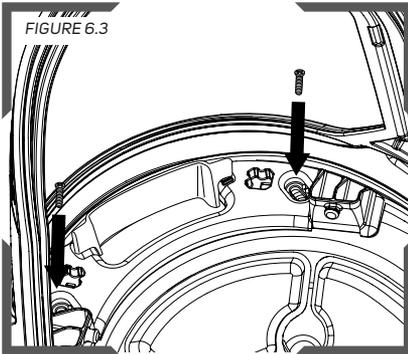


FIGURE 6.3

The position of the head harness can be adjusted by loosening the screws that hold the front bracket and sliding it forward or backwards into the desired slot. Once in position, tighten the screws.

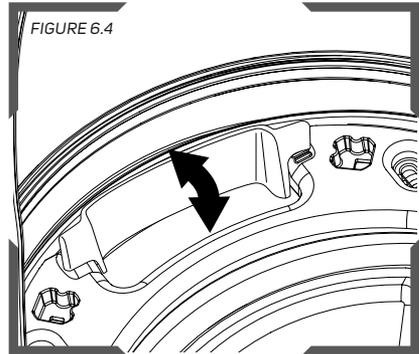


FIGURE 6.4

Airflow can be directed by positioning the air flow director so that the air flows more towards the visor or towards the face.

BROW PAD REPLACEMENT AND CLEANING

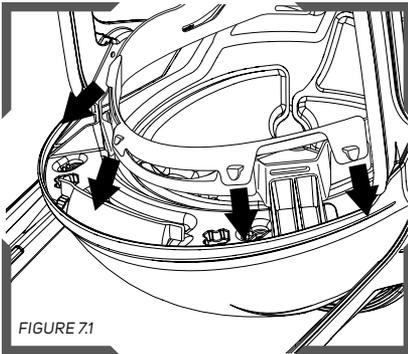


FIGURE 7.1

To remove the brow pad, stretch the brow pad over the hooks on the head harness and take it off. Clean it with mild detergent or replace it with a new one.

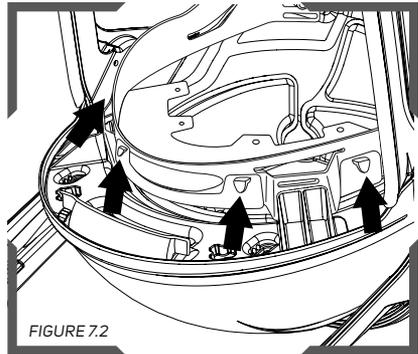


FIGURE 7.2

Replace the brow pad by placing the holes on one side over the hooks on the head harness and then wrap the pad over the top of the head harness. Stretch the pad around the bottom of the head harness and secure the holes over the hooks.

RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

SIDE PADDING SYSTEM

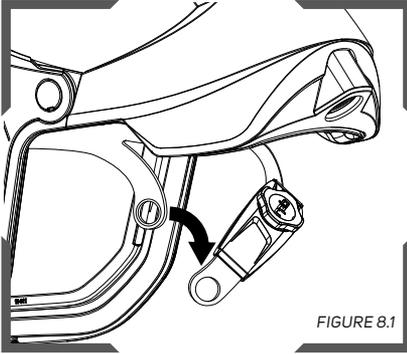


FIGURE 8.1

Detach the head harness ratchet at the pivot points.

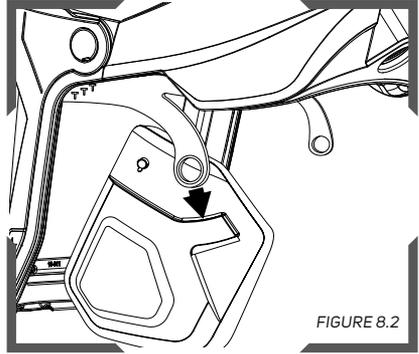


FIGURE 8.2

Slide the ends of the head harness into the slots on the side pad covers.

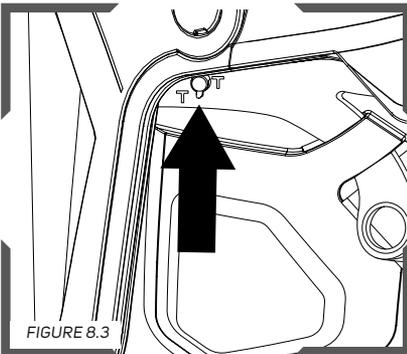


FIGURE 8.3

Slide the tab on the side pad covers into one of the three T-shaped slots in the head harness depending on the desired height of the side pads. Reinsert the ratchet pivot points.

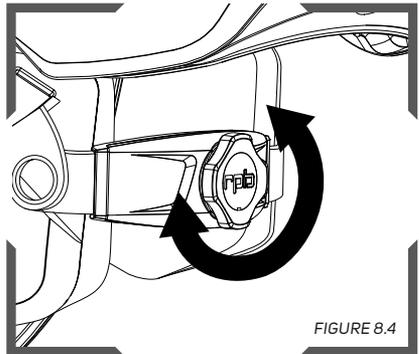
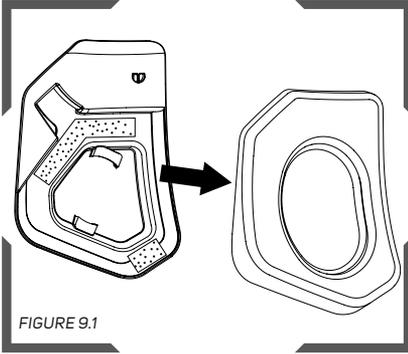


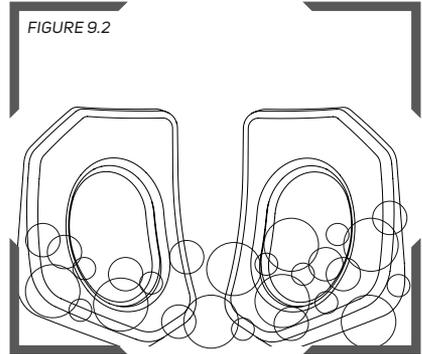
FIGURE 8.4

While wearing the Z-LINK®, tighten the ratchet adjustment until the helmet and side pads sit comfortably on the head and ears.

SIDE PADDING SYSTEM CLEANING

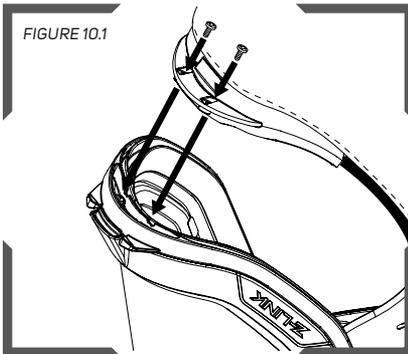


Remove the side pads from the covers that are attached with hook and loop.

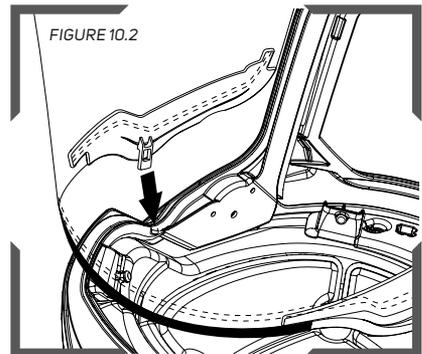


Wash the pads with mild detergent. Once dry, reattach them to the side pad covers.

FACE SEAL/CAPE INSTALLATION/REPLACEMENT



To install the cape or face seal, start by inserting the front clip into the track around the front of the jaw. Make sure the holes are aligned and insert and tighten the screw to secure the front of the cape. Press the rubber seal in up both sides.



Next 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.

RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

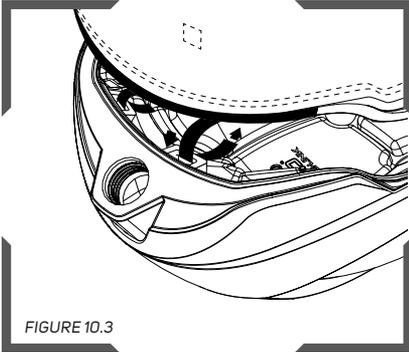


FIGURE 10.3

Then 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.

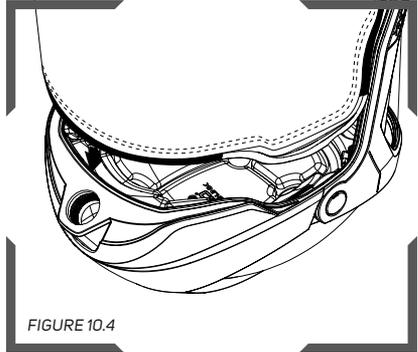


FIGURE 10.4

Press the rubber seal on the cape or face seal 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.

If your face seal or shoulder cape has a rubber seal on the back with a hole in it, push the ratchet knob through the hole. This will allow you to easily adjust the head harness ratchet.

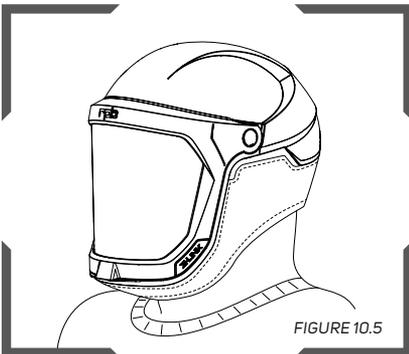


FIGURE 10.5

When using a face seal, make sure the elastic edge is under the users chin at the front and is in contact all of the way around the neck and back of the head.

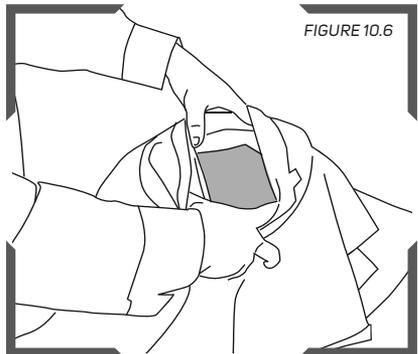
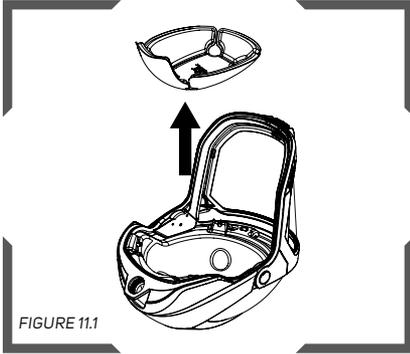


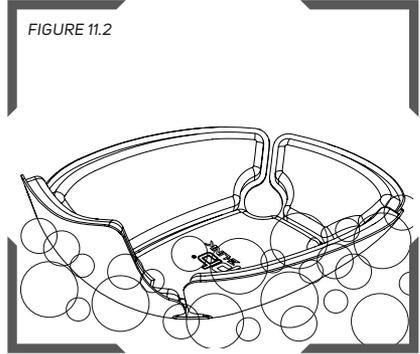
FIGURE 10.6

When using a shoulder cape, adjust the elastic cord in the inner collar to ensure a snug fit around the user's neck and pull the fabric down all of the way around over the shoulders so that it lays flat.

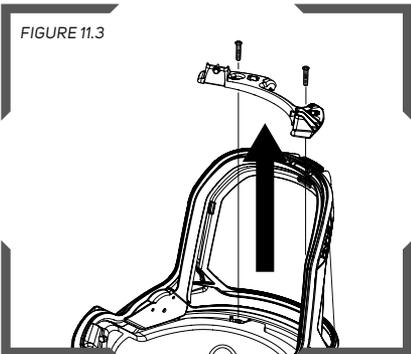
CLEANING THE Z-LINK® AND THE COMFORT PADDING



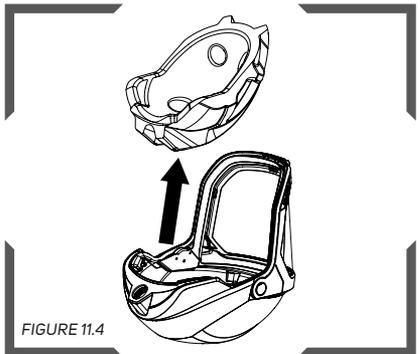
The comfort pad is attached to the inside of the Impact Liner with hook and loop. Pull the comfort pad out of the helmet.



The comfort pad can be washed with mild detergent or replaced.



To remove the Impact Liner, remove the head harness bracket by removing the screws holding it in place.

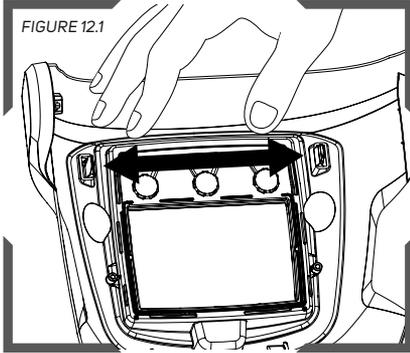


Rotate the Impact Liner out of the helmet shell. The inside of the shell can be wiped with mild liquid detergent or a cleaning wipe.

SETUP AND CARE - Z-LINK+® WELDING CONFIGURATION

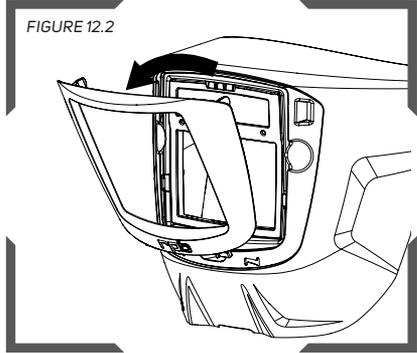
IMPACT LENS, ADF LENS AND REAR LENS REPLACEMENT

FIGURE 12.1



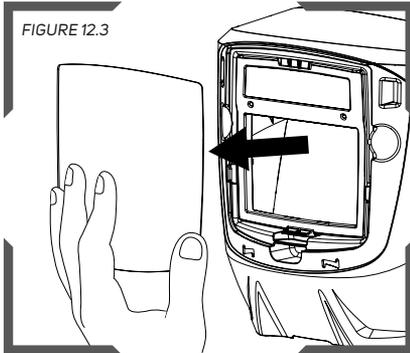
Push the tabs inside the weld visor apart to release the ADF Retainer.

FIGURE 12.2



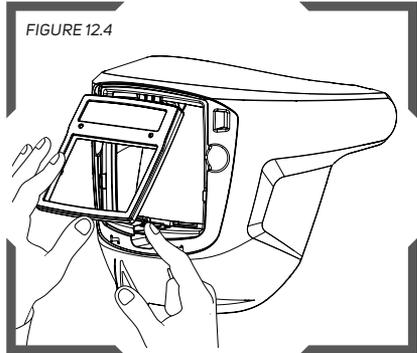
Remove the green ADF Retainer.

FIGURE 12.3



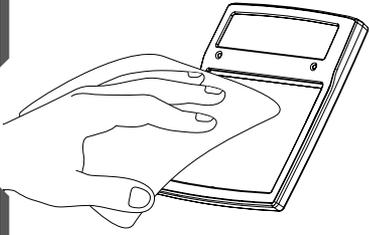
Remove the Impact Lens by squeezing together the sides of the Impact Lens. If just replacing the Impact Lens, then place the new Impact Lens in and replace the green ADF Retainer.

FIGURE 12.4



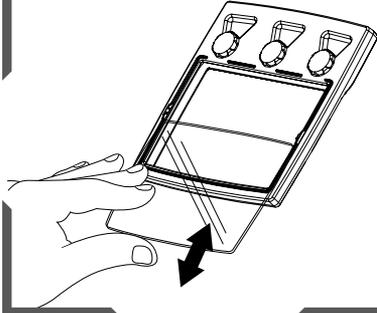
To remove the ADF, push down on the tab at the bottom of the ADF to release it and pull the ADF out.

FIGURE 13.1



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

FIGURE 13.2



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

Note: Protection lenses, both internal and external, must be used in conjunction with the auto-darkening filter in order to protect it against permanent damage.

MAGNIFYING LENS

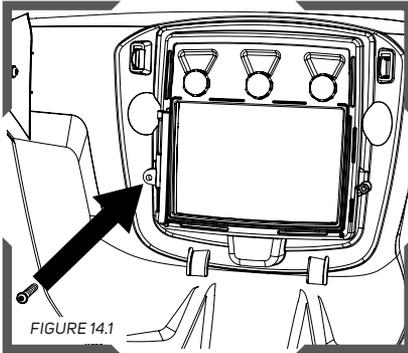


FIGURE 14.1

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.

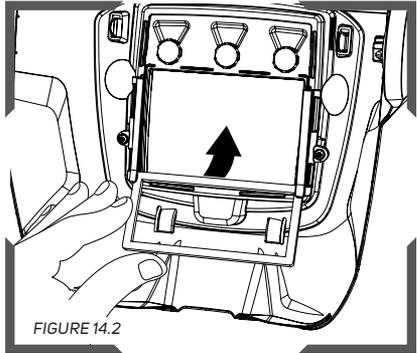


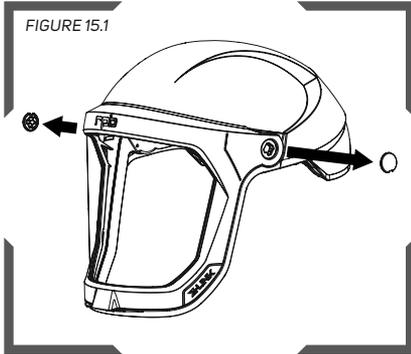
FIGURE 14.2

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

SETUP AND CARE - Z-LINK+® WELDING CONFIGURATION CONTINUED

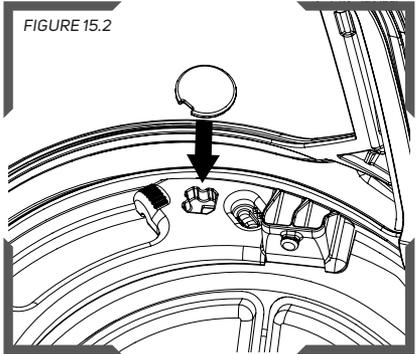
INSTALL/REMOVE WELDING VISOR

FIGURE 15.1



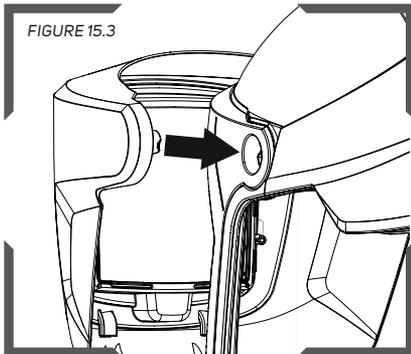
To install the Z-LINK® Welding Visor, remove the pivot pin caps on the Z-LINK®.

FIGURE 15.2



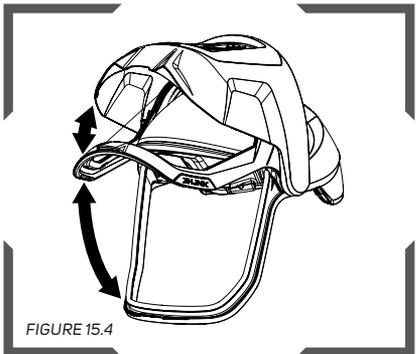
Insert the caps into the holding sockets on the Head Harness Bracket so they don't get lost while using the Welding Visor.

FIGURE 15.3



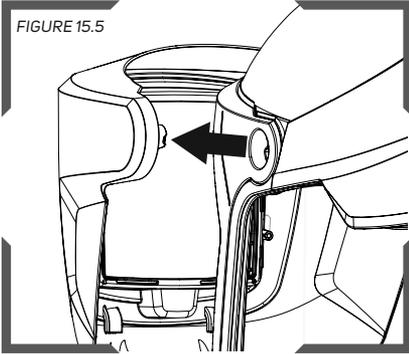
Line up the Welding Visor connection sockets with the Pivot Pins on the Z-LINK® and insert them into the Z-LINK® until they snap in securely. This can be done while wearing the Z-LINK®.

FIGURE 15.4



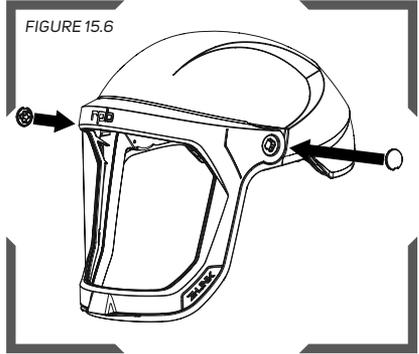
The Welding Visor can be rotated up independently of the Visor or together with the Visor.

FIGURE 15.5



To remove the Welding Visor from the Z-LINK®, pull the sides of the Welding Visor out until the connection sockets snap out of the Pivot Pins in the Z-LINK®. This can also be done while wearing the Z-LINK®.

FIGURE 15.6



If the Welding Visor is not going to be used again for a while, the socket caps can be snapped back into the Pivot Pins to keep the area free of debris.

SETUP AND CARE - Z-LINK® WELDING CONFIGURATION CONTINUED

REPLACING THE WELDING VISOR FLIP-UP MECHANISM

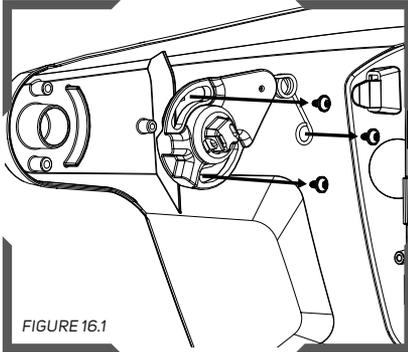


FIGURE 16.1

The flip-up mechanisms and springs can be replaced if needed. Using a small screw driver, remove the three screws that hold in the mechanism being careful to not strip the plastic they are threaded into.

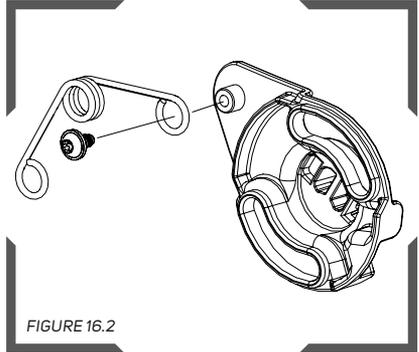


FIGURE 16.2

Position the spring onto the new flip up mechanism and secure it with the screw provided.

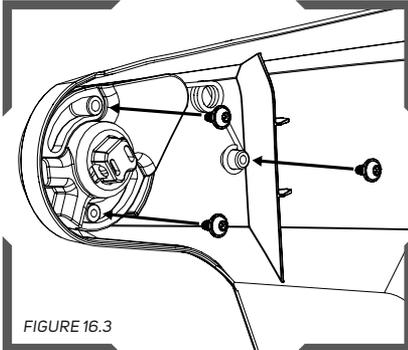


FIGURE 16.3

Carefully align the replacement spring and the flip-up mechanism onto the pegs in the Welding Visor. Insert and screw in the 3 replacement screws to attach the spring and mechanism without over tightening.

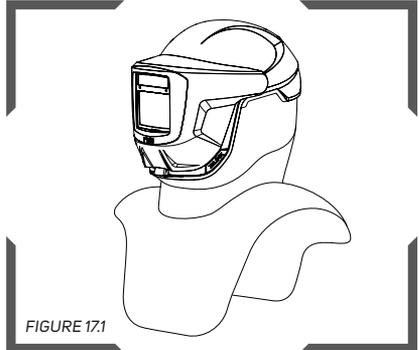


FIGURE 17.1

When welding, be sure to install a RPB® Zytac face seal or shoulder cape for adequate protection from sparks, debris, and light flashes. If using a face seal, make sure all skin, such as the neck, is covered to prevent UV radiation and burns. Follow the cape installation instructions on page 23.

AUTO-DARKENING WELDING PROTECTION FILTER

OPERATION

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.

RPB® auto-darkening welding filters are manufactured according to ANSI/ISEA Z87.1, EN 379 requirements and are CE, DIN as well as DIN Plus 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. In case that you have only bought a filter without the helmet, you need to select the appropriate helmet designed to be used in combination with an auto-darkening welding protection filter. It has to allow the filter, including the internal and external protection screens, to be adequately mounted into the helmet. There should be no tension on the

ADF filter caused by the mounting frame or mounting system, 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. If any of these conditions occur, the filter may not be suitable for use.

FIELD OF APPLICATION

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

FUNCTIONS

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 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

AUTO-DARKENING WELDING PROTECTION FILTER

CONTINUED

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 0.1 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 +149°F (65°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. 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.

WARRANTY

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

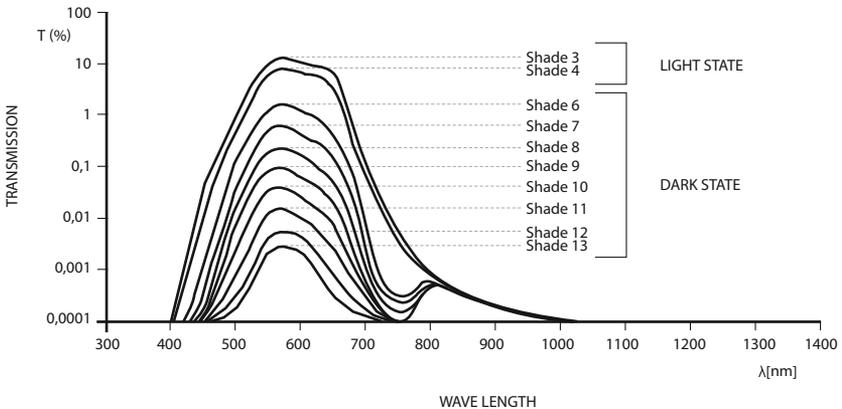
RECOMMENDED SHADE LEVELS FOR VARIOUS WELDING APPLICATIONS

FIGURE 18.1

Welding Process	CURRENT IN AMPERES																	
	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	250	400	
MMA	8				9			10		11			12			13		
MAG	8						9		10		11			12				
TIG	8			9			10		11			12			13	14		
MIG heavy metals	9								10		11			12		13		
MIG light metals Stainless, Al	10										11		12		13			
Plasma Cutting	9								10	11	12			13				
Micro plasma welding	4	5	6	7	8	9	10	11	12	13								

LIGHT TRANSMISSION CURVE

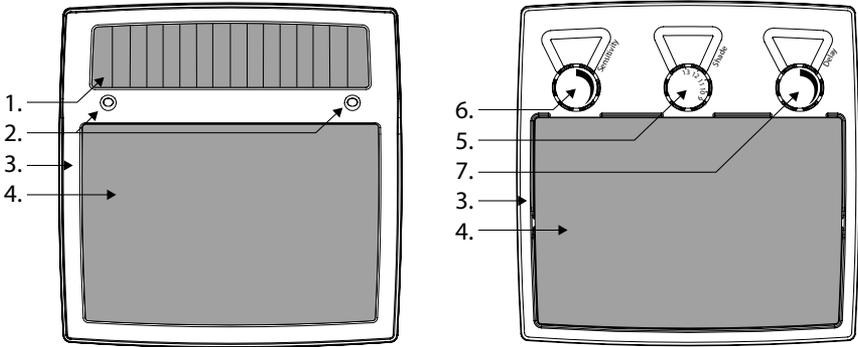
FIGURE 18.2



DESCRIPTION OF RPB® FILTER FEATURES

FIGURE 18.3

- 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 18.4

Model	Z-LINK® ADF
Viewing Area	3.88 x 2.66 inches
Weight	4.4oz
Open state shade	4
Closed state shade	9-13
Shade adjustment	yes / internal
Sensitivity adjustment	yes / internal
Delay adjustment	yes / internal
Grinding Mode	no
Switching time at 23°C	0.15ms
Clearing time	0.1-1.0 s
UV / IR protection	UV16 / IR 16
Temperature range	14°F - 140°F
TIG detection	enhanced
Energy supplied	solar cells / no battery charge

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. Firstly 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. Depending on the contaminants, it may be advisable to clean the exterior of the helmet and your work garments before removing the respirator. A workplace cleaning program may be necessary.

STORAGE

Before storing the respirator, clean the unit following the cleaning instructions in this instruction manual. Be sure it is clean, both inside and out. After use, store the respirator by hanging it up in a clean, dry place, away from the work area. If the Z-LINK® isn't going to be used for a longer period of time, store in a container or a bag. Store in a cool dry place between -10°C to +45°C (14°F to 113°F) <90%rh.

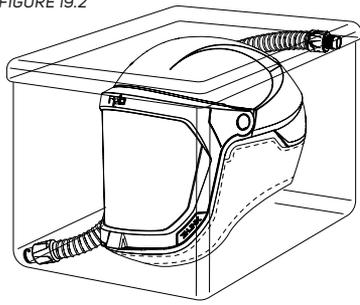
After use:

FIGURE 19.1



Long term storage:

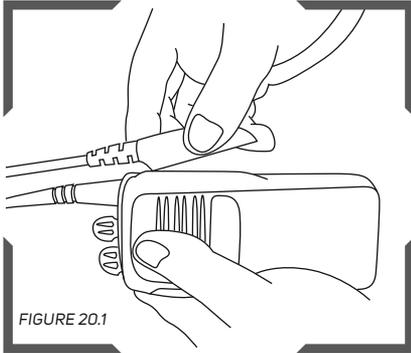
FIGURE 19.2



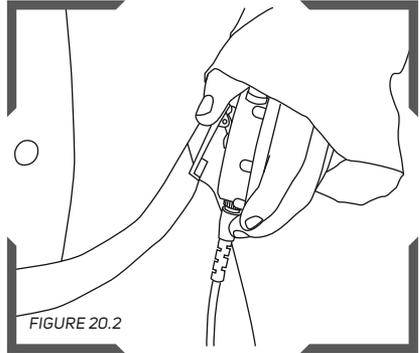
PX4 AIR® may need to be stored separately, refer to the PX4 AIR® Instruction manual for specific storage instructions.

COMMS-LINK™ INSTRUCTIONS

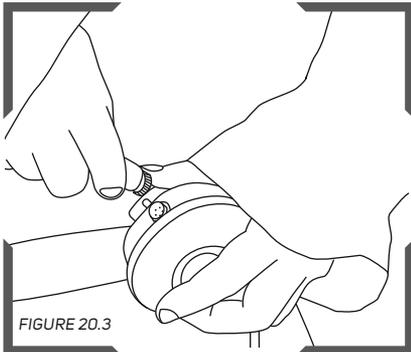
SET UP



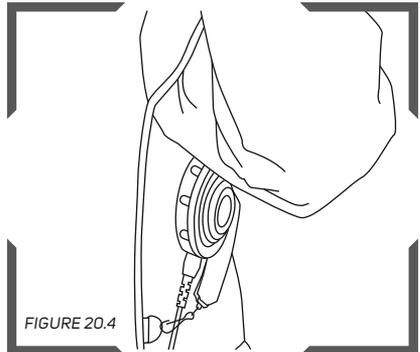
Connect the PTT Cable to the Hand Set depending on the type used.



Attach the PTT to your belt so your elbow can activate the Button.

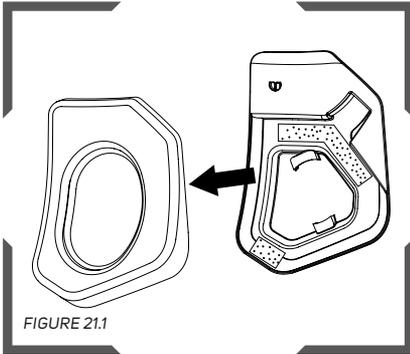


Connect the PTT cable to the head set cable and place the cable underneath the cape.

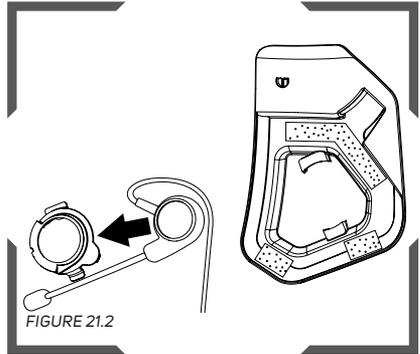


To operate the device, press your elbow onto the PTT Button, and then speak.

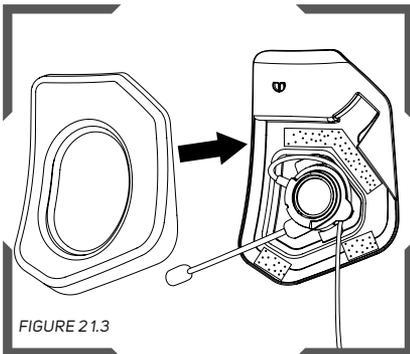
INSTALLATION



Remove the side pad from the cover that is attached with hook and loop on the side of the helmet that the Communication is to be installed. The Communication can be installed on either side of the helmet.



Place the Communication ear piece into the attachment clip. Then attach the Communication Clip into the slots on the inside of the cover.



Attach the side pad back onto the cover over the Communication.

RADIO CONNECTORS COMPATIBILITY

09-930

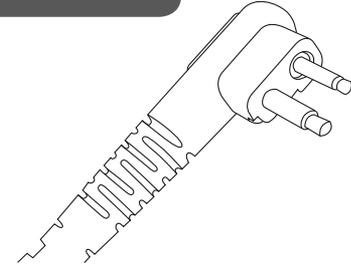


FIGURE 22.1

MOTOROLA

AXU4100, AXV5100, BPR40, CLS1110, CLS1410, CLS1413, CLS1450C, CLS1453C, CP100, CP150, CP185, CP200, CP88, CT125, CT150, CT250, CT450, CT450LS, DTR, DTR410, DTR550, DTR650, GP200, GP2000, GP300, GP308, GP68, GP88, GTI, GTX, LTS2000, P040, P080, P110, P1225, P1225LS, P200, P2000, PR400, RDK, RDU, RDU2020, RDU2080D, RDU4100, RDU4160D, RDV, RDV2020, RDV2080D, RDV5100, SP10, SP21, SP50, VL50, XTN, XTN446, XTN500, XTN600, XU1100, XU2100, XU2600, XV1100, XV2100, XV2600

RELM

RPU6500, RPV6500

09-931

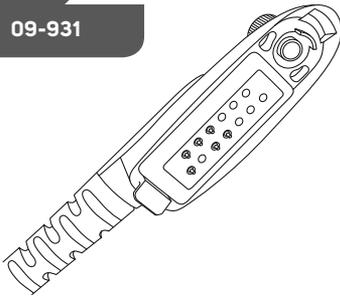


FIGURE 22.2

HYT

TC-980

MOTOROLA

CBPRO, GP1280, GP140, GP320, GP328, GP329, GP338, GP339, GP340, GP360, GP380, GP640, GP650, GP680, GP960, HT1250, HT1250LS, HT1550, HT1550XLS, HT750, JT1000, MTX8250, MTX8250LS, MTX850, MTX850LS, MTX9250, MTX950, PR860, PRO5150, PRO5350, PRO5450, PRO5550, PRO5750, PRO7150, PRO7350, PRO7450, PRO7550, PRO7750, PRO9150, PTX700, PTX760, PTX780

09-932

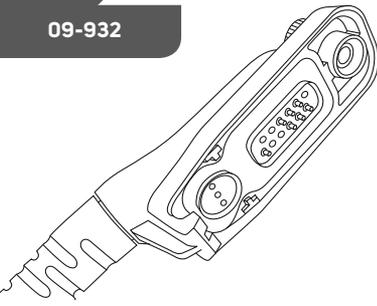


FIGURE 22.3

MOTOROLA

Turbo

APX 7000, XPR6300, XPR6500, XPR6550, APX 7500, XPR6100, XPR6350, XPR6580

09-933

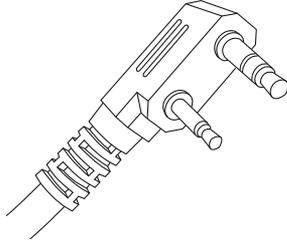


FIGURE 22.4

HYT

TC-268, TC-268S, TC-270, TC-368, TC-368S, TC-370

KENWOOD

TH-22AT, TH-235A, TH-28A, TH-42AT, TH-48A, TH-77A, TH-78A, TH-D7A(G), TH-F6, TH-F6A, TH-G71A, TH-K2AT, TK-208, TK-2100, TK-2102, TK-2130, TK-2160, TK-2170, TK-220, TK-2200, TK-2200LP, TK-2212L, TK-2302VK, TK-240, TK-240D, TK-248, TK-250, TK-260, TK-260D, TK-260G, TK-270, TK-270G, TK-272G, TK-308, TK-3100, TK-3101, TK-3102, TK-3130, TK-3131, TK-3160, TK-3170, TK-3173, TK-320, TK-3200, TK-3200LP, TK-3212L, TK-3230, TK-3230XLS, TK-3302UK, TK-340, TK-340D, TK-348, TK-350, TK-353, TK-360, TK-360G, TK-370, TK-370G, TK-372G, TK-373, TK-430, TK-431, TK-2312, TK-3312

RELM

RPU416, RPU4200, RPU499, RPV4200, RPV516, RPV599X

09-934

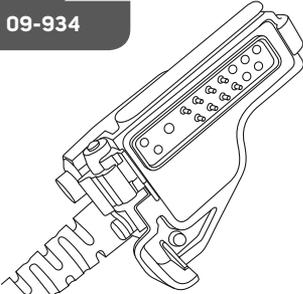


FIGURE 22.5

EF JOHNSON

51 SLES Series, 5100 Series, 511X, 512X, 514X, 518X, Ascend ES Series

MOTOROLA

GP900, GP9000, HT1000, MT1500, MT2000, MTS2000, MTX8000, MTX838, MTX900, MTX9000, MTX960, MTXLS, PRI500, X1500, XTS1500, XTS2000, XTS2500, XTS3000, XTS3500, XTS5000, GP1200

09-935

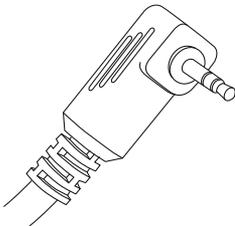


FIGURE 22.6

COBRA

CXR700, CXR800, CXR900, CXR920, CXT400, Li Series, LI3900, LI5600, LI6000, LI6500, LI6700, LI7000, LI7020, MRHH100, MRHH200, PR Series, PR190, PR240, PR245, PR3000, PR3100, PR3175, PR350, PR4000, PR4100, PR4250, PR4300, PR5000, PR560

HYT

TC-320

MOTOROLA

EM1000, FR50, FR60, FV300, FV300R, FV700R, FV750R, MH230R, MJ270R, MR350R, MR355R, SPIRITGT, SPIRITGT Plus, SX600R, SX900R, T270, T280, T289, T5100, T5200, T5300, T5320, T5400, T5410, T5420, T5500, T5600, T5620, T5700, T5710, T5720, T5800, T5820, T5920, T5950, T6200, T6210, T6220, T6250, T6300, T6320, T6400, T6500, T7200, T7400, T8500, T8550, T9500XLR, T9550XLR, T9580R, T9680R, T9750R, TalkAbout

PARTS AND ACCESSORIES

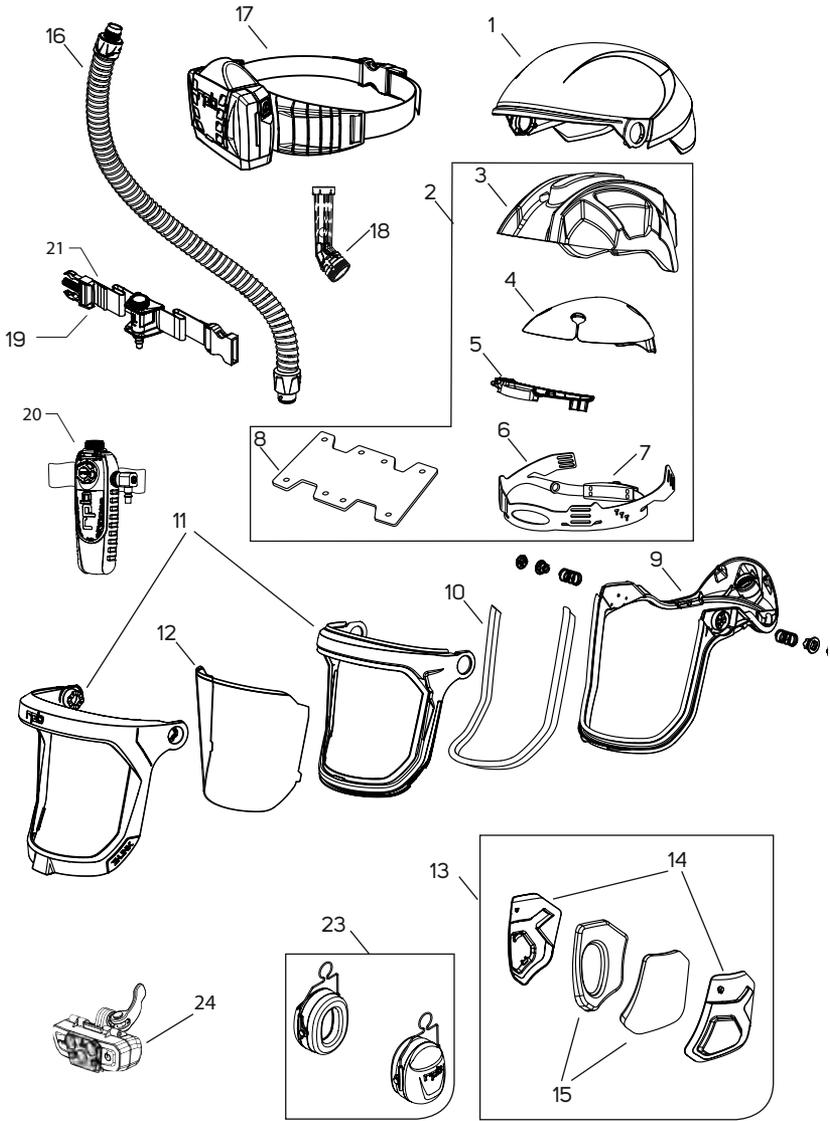


FIGURE 23.1

PARTS LIST

Item Number	Description	Part Number
1	Z-LINK® Helmet Shell	16-511
2	Z-LINK® COMFORT-LINK™ (16-521, 522, 525, 526, 530, 531)	16-520-T
3	Z-LINK® Impact Absorber	16-521
4	Z-LINK® Comfort Pad	16-522
5	Z-LINK® Head Harness Bracket and Air Director	16-525
6	Z-LINK® Head Harness	16-531
7	Z-LINK® Ratchet Adjuster Assembly	16-530
8	Z-LINK® Head Harness Brow Pad	16-526
9	Z-LINK® Jaw with Lens Seal	16-514
10	Z-LINK® Lens Seal	16-515
11	Z-LINK® Visor	16-611
12	Z-LINK® Safety Lens - Anti-Fog/Anti-Scratch	16-810
	Z-LINK® Safety Lens Smoke Tinted - AF/AS	16-810-ST
	Z-LINK® Safety Lens Yellow - AF/AS	16-810-YT
	Z-LINK® Safety Lens Smoke Tinted Mirror - AF	16-810-SM
	Z-LINK® Safety Lens IR Tinted Shade 3	16-810-IR3
	Z-LINK® Safety Lens IR Tinted Shade 5	16-810-IR5
13	Z-LINK® Side Padding System	16-520-S
14	Z-LINK® Side Padding Frames	16-527
15	Z-LINK® Foam Side Pads	16-528
16	Z-LINK® Breathing Tube for PX4 AIR® PAPR	04-835
	Z-LINK® Breathing Tube for Supplied Air	04-830
17	PX4 AIR® PAPR and Belt	03-901
18	PX4 AIR® Flow Tester	04-091
19	Constant Flow Valve Assembly and Belt	03-101
20	C40™ Climate Control Assembly and Belt	03-500
21	Belt (For all except PX4 AIR®)	NV2022
22	Z-LINK® Tear-Off Lenses	16-811
23	RPB® Quiet-Link™ Helmet Earmuffs	18-533
24	Vision-Link™ Light	16-901



WARNING

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

Z-LINK+® PARTS AND ACCESSORIES

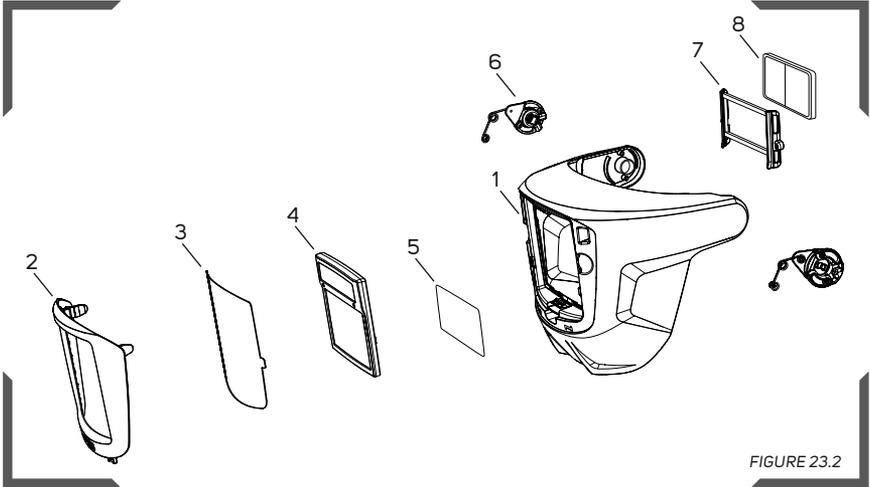


FIGURE 23.2

Item Number	Description	Part Number
1	Z-LINK+® Welding Visor	16-671
	Z-LINK+® Welding Visor w/ADF Lens	16-670
2	Z-LINK+® Welding Lens Retainer	16-672
3	Z-LINK+® Welding Impact Lens	16-872
4	Z-LINK+® ADF Lens	16-871
5	Z-LINK+® Rear ADF Lens	16-873
6	Z-LINK+® Welding Visor Attachment Clip and Springs	16-673
7	Z-LINK+® Magnifying Lens Holder	16-875
8	Magnifying Lens 1.0 (107 x 51)	13-072-1
	Magnifying Lens 1.5 (107 x 51)	13-072-1.5
	Magnifying Lens 2.0 (107 x 51)	13-072-2
	Magnifying Lens 2.5 (107 x 51)	13-072-2.5

CAPES AND FACE SEALS

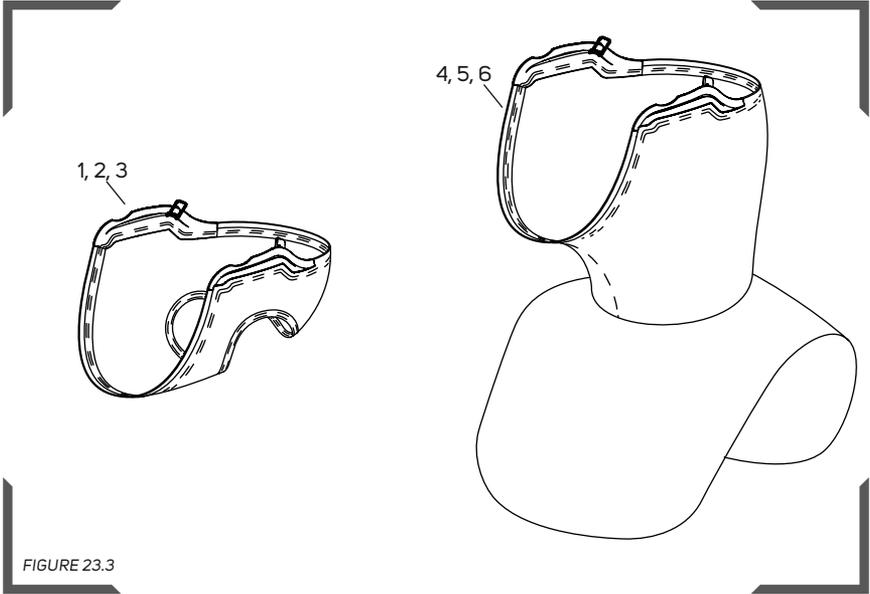


FIGURE 23.3

Item Number	Description	Part Number
1	Z-LINK® Zytec® Face Seal	16-711
2	Z-LINK® Tychem® 2000 Face Seal	16-712
3	Z-LINK® Tychem® 4000 Face Seal	16-713
4	Z-LINK® Zytec® Shoulder Cape	16-721
5	Z-LINK® Tychem® 2000 Shoulder Cape	16-722
6	Z-LINK® Tychem® 4000 Shoulder Cape	16-723

COMMS-LINK™ PARTS AND ACCESSORIES

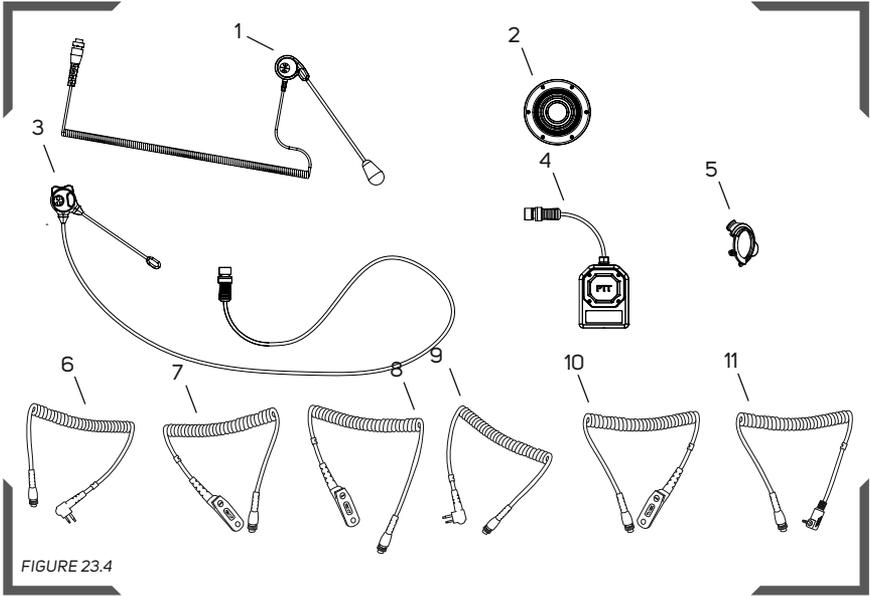


FIGURE 23.4

Item Number	Description	Part Number
1	Z-LINK® Comms-Link™ Communication System - w/09-913	16-922
2	PTT	09-913
3	Z-LINK® Comms-Link™ - Intrinsically Safe	16-921-IS
4	PTT Intrinsically Safe	09-813
5	Z-LINK® Comms-Link™ Clip	16-529
6	Two Pin	09-930
7	Multi Pin	09-931
8	Multi Pin	09-932
9	Two Pin	09-933
10	Multi Pin	09-934
11	One Pin	09-935

Other Radio Connectors may be available.

AIR SUPPLY HOSES AND FITTINGS

SERIES	1. COUPLERS	2. PLUGS	3. BREATHING AIR LINE ASSEMBLIES
RPB® Quick Disconnect	NV2025 1/4" FM NPT 	03-012-PM 1/4" M NPT 03-013-PM 3/8" M NPT 03-012-PMS 1/4" M NPT Swivel 	NV2028 RPB 25ft 3/8" NV2029 RPB 50ft 3/8" NV2027 RPB 100ft 3/8"
Schrader Twist Lock	03-042-CF 1/4" FM NPT 	03-042-PM 1/4" M NPT 03-043-PM 3/8" M NPT 03-042-PMS 1/4" M NPT Swivel 	04-342-25 Schrader 25ft 04-342-50 Schrader 50ft 04-342-100 Schrader 100ft
RPB RZ Quick Connect	03-052-CB-RZ RZ Coupler 	03-052-PB-RZ RZ Plug Hose Tail 03-052-PM-RZ RZ Plug 1/4" Male Thread 03-052-PMS-RZ RZ Swivel Plug 	04-352-25 RZ 25ft 04-352-50 RZ 50ft 04-352-100 RZ 100ft

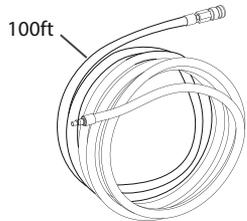
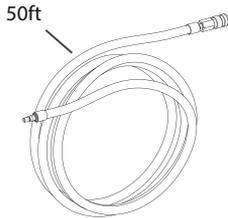
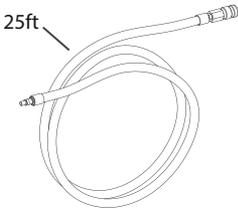


FIGURE 23.5



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.

PROPOSITION 65 - CALIFORNIA RESIDENTS

WARNING: This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

NOTES

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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 advanced 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.



POWERED AIR RESPIRATOR

Polluted air can be the cause of major health issues. How can you improve the quality of the air your employees are breathing? The RPB® PX4 AIR® is a powered air purifier that is ergonomic and lightweight, designed to withstand harsh conditions. Powered with a lithium-polymer battery, making the unit incredibly efficient, operating for up to 8 hours on a single charge.



1-866-494-4599

RPBSAFETY.COM

