

Z-LINK[®] UI R11

GVS-RPB.COM

Instruction Manual Z-Link® Respirator

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).

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

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











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



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 gvs-rpb.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.

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

Form #: 7.20.541 Rev: 11



s best moments.

IMPORTANT SAFETY INFORMATION

A 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 gvs-rpb.com/industrial/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).

Check website for updates. Product manuals are regularly updated. Visit gvs-rpb.com/industrial/ resources for the most recent version of this manual before using the product.

PROTECTION PROVIDED AND LIMITATIONS

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 RPB PX5[®] or the RPB PX4 AIR[®] Powered Air Purifying Respirator, is a NIOSH approved powered air purifying respirator with an assigned protection factor of 1000. When used with the Chin Seal, the APF is greater than 500. As such, it significantly reduces, but does not completely eliminate, the breathing of contaminates by the respirator wearer. Specific protection depends on the filter selected for use in the RPB PX5 or the RPB PX4 AIR PAPR (see PX5 or the 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, Constant Flow Valve or the C40[™] Climate Control Device, and RPB Breathing Air Line is a NIOSH approved respirator with an assigned protection factor of 1000. When used with the Chin Seal, the APF is greater than 500. As such, it significantly reduces, but does not completely eliminate, the breathing of contaminates by the respirator wearer. Use with an airline filter, such as the 04-900 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), except when using the High Heat Kit. Refer to the Z-LINK High Heat Kit instruction manual for details.
- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe such as the PX5, PX4 AIR, Comms-Link or 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.

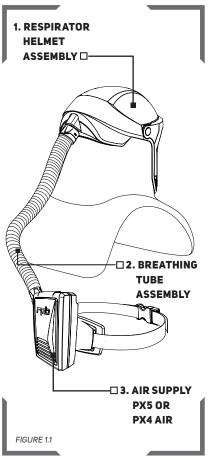
HEARING:

- 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

The RPB Z-Link Powered Air Purifying Respirator consists of 3 main components. All 3 components must be present and properly assembled to constitute a complete NIOSH approved respirator.



NIOSH - CAUTIONS AND LIMITATIONS

POWERED AIR

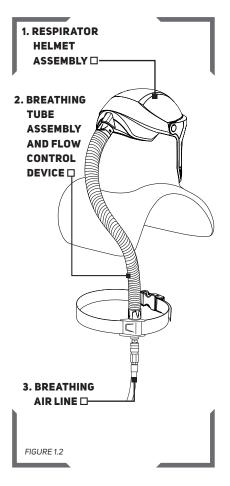
- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- Not for use in atmospheres immediately dangerous to life or health.

- 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.
- 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.
- 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.
- 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 PX5 or the PX4 Air Instruction Manual before donning.

PLACE NIOSH APPROVAL LABEL HERE.

RESPIRATOR COMPONENT DIAGRAM - SAR

The RPB Z-Link Supplied Air Respirator consists of 3 main components. All 3 components must be present and properly assembled to constitute a complete NIOSH approved respirator.



NIOSH - CAUTIONS AND LIMITATIONS

SUPPLIED AIR

- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- Not for use in atmospheres immediately dangerous to life or health.
- 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.
- 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.
- Refer to user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- 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 PX5 PAPR or 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.

A 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 gvs-rpb.com/industrial/important-safety-information for more information), asbestos, organic pathogens. etc. Know which requirements applu 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; ASTM F3387-19; 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 PX5 PAPR, the PX4 AIR PAPR, or the 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.

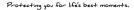
□ Train employees in the Z-LINK's use, maintenance, and limitations.

Appoint a qualified individual who is knowledgable about the RPB Z-LINK per ASTM F3387-19 guidelines to provide training:

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

- a) be knowledgable in the application and use of the respirator(s);
- b) have practical knowledge in the selection and use of respirator(s) and work practices





EMPLOYER RESPONSIBILITIES CONTINUED

at the site;

- c) have an understanding of the site's respirator program; and
- d) be knowledgable 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: 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, PX4 AIR PAPR, or the flow control device Instruction Manual (additional copies available at gvs-rpb.com/industrial/ resources) and have been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is knowledgable 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 (PX5 PAPR, PX4 AIR PAPR, 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 PX5 PAPR, 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.

- Z-LINK has a shelf life of 5 years from the date of manufacture.
- Z-LINK 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 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



PRODUCT USER SAFETY INSTRUCTIONS CONTINUED

concentrations do not exceed those allowed by applicable OSHA, EPA, or NIOSH regulations and recommendations for powered air purifying respirators or supplied air respirators.

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 PX5 PAPR or 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), except when using the High Heat Kit. Refer to the Z-LINK High Heat Kit instruction manual for details.
- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe, PX5, PX4 AIR, 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 PX5 or the PX4 AIR with the FR belt and spark arrestor in place, see the PX5 or the PX4 AIR Instruction Manual. Use a RPB Zytec chin seal, 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 A2 of ASTM F3387-19.

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. Maximum hose pressure is 300 psi.

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)
	NV2028 (25ft) NV2029 (50ft) NV2029 (50ft)	03-101 Constant Flow Valve Assembly (High Pressure)	25 50 100 150 200 250 300	1 1 2 3 4 5 6	10 - 14 12 - 14 17 - 19 21 - 23 25 - 27 28 - 31 31 - 34
Portable or Stationary Compressor	NV2027 (100ft) 04-352-25-RZ (25ft) 04-352-50-RZ (50ft) 04-352-100-RZ (100ft)	03-500 C40 Climate Control Assembly	25 50 100 150 200 250 300	1 2 3 4 5 6	55-80 60-85 65-95 70-95 75-100 80-100 90-100
	04-342-25 (25ft) 04-342-50 (50ft)	03-101 Constant Flow Valve Assembly (High Pressure) with Schrader Fitting	25 50 100 150 200 250 300	1 1 2 3 4 5 6	20-22 24-26 28-30 32-34 36-38 38-40 44-46
	04-342-100 (50ft) 04-342-100 (100ft)	03-500 C40 Climate Control Assembly with Schrader Fitting	25 50 100 150 200 250 300	1 1 2 3 4 5 6	65-80 70-85 75-95 80-95 85-100 90-100 95-100

*The optional breathing tube covers have no effect on this table.

OSHA 29 CFR 1910.134 For all tight-fitting respirators that must be fit tested prior to use: Before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the local government requirements. In the United States, employers must comply with OSHA 29 CFR 1910.134 which includes medical evaluation, training, and fit testing.

Note: The Z-LINK is a loose fitting respirator and does not require fit testing.

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)
	04-412-15 (15ft)	03-101 Constant Flow Valve Assembly (High Pressure)	15 25	1 1	9 - 14 11 - 15
	04-412-25 (25ft)	03-500 C40 Climate Control Assembly	15 25	1 1	55 - 80 55 - 80
Portable or Stationary Compressor	04-442-15 (15ft)	03-101 Constant Flow Valve Assembly (High Pressure) with Schrader Fitting	15 25	1	21-30 23-33
	04-442-25 (25ft)	03-500 C40 Climate Control Assembly with Schrader Fitting	15 25	1	65-80 65-80

A 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).
- 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.

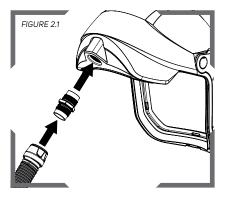
If the Breathing Air Lines and Flow Control Device have RZ[™] fittings, they will only attach to other RZ fittings. They will not work with Universal Couplers. Do not modify air line fittings. RZ fittings prevent connection to unsafe air sources.





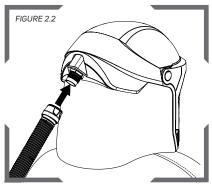
RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION

BREATHING TUBE ADAPTOR FOR RETROFITTING OLDER MODELS

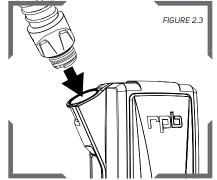


Insert the breathing tube adapter into the inlet of the Z-LINK by threading it in until tight. A wrench may be required. Be careful not to over tighten and crack the inlet area of the Z-LINK. Screw the breathing tube onto the adaptor once it is installed on the Z-LINK.

CONNECT THE AIR SUPPLY - POWERED AIR



Place the threaded end of the breathing tube onto the breathing tube adapter on the back of the Z-LINK and screw the breathing tube in completely without over tightening.



Insert the bayonet end of the breathing tube into the outlet of the PX5 or the PX4 AIR PAPR and twist it in until it is secure.

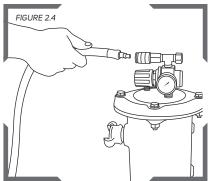
FOR USE WITH RPB PX5 OR THE PX4 AIR - SEE THE PAPR USER MANUAL

When the Z-LINK Respirator is being used in conjunction with the RPB PX5 or the PX4 AIR PAPR, please refer to the PX5 or the PX4 AIR PAPR Instruction Manual for set up and use of the assembly.

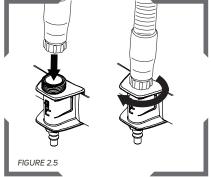
Note: The RPB PX5 and the PX4 AIR are Powered Air Purifying Respirators, therefore care must be taken when selecting the correct filter for the application the respirator will be used in.

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



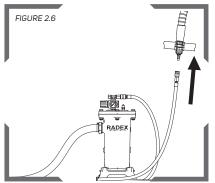
Connect the Breathing Air Supply Hose to the point of attachment (04-900 Radex Airline Filter) shown.



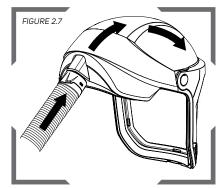
Connect the Breathing Tube to the flow control device.

NOTE:

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



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

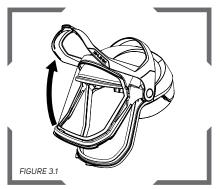


With air flowing through the respirator adjust the air pressure at the point of attachment to the recommended pressure as specified in the Breathing Air Pressure Table (page 14).

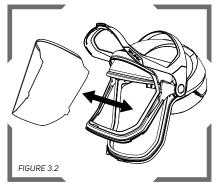


RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

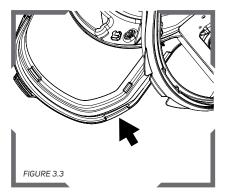
LENS REPLACEMENT



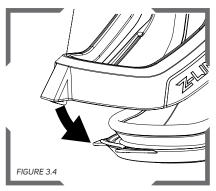
To replace the Safety Lens, lift up the visor, unlatch the inner visor from the outer visor and open them apart.



Pull out the old 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.

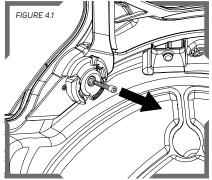


Close the outer visor over inner visor and lens, making sure the latches at the corners are secure.

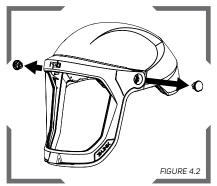


Close the visor making sure it LATCHES SECURELY to the front of the jaw. Listen for the visor latching over the tab on the front of the jaw.

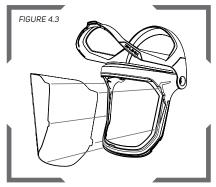
VISOR REPLACEMENT



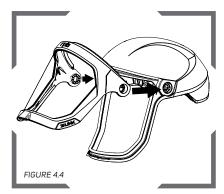
To replace the Visor, from inside of the helmet, unscrew the center screw from the visor pivot point on each side.



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.

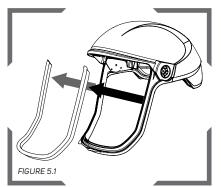


Place the visor onto the helmet pivot points, insert the pivot pins and springs, then screw in the attachment screws from the inside of the helmet until tight.

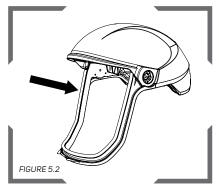


RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

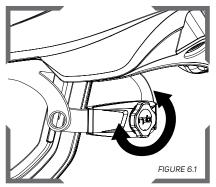
VISOR SEAL REPLACEMENT



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

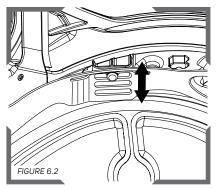


Starting from one of the top corners, insert the new visor seal by pressing the edge into the track all of the way around the visor opening.

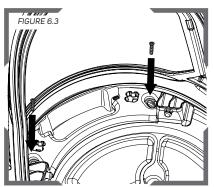


HEAD HARNESS ADJUSTMENT

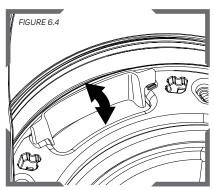
The head harness can be tightened or loosened using the ratchet knob on the back of the headband.



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



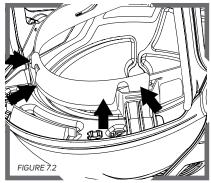
The position of the head harness can be adjusted by loosening the screws that hold the front bracket and sliding it forward or backwards into the desired slot. Once in position, tighten the screws.



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

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.



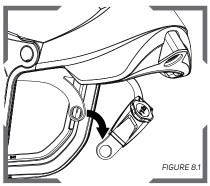
Replace the brow pad by placing the holes on one side over the hooks on the head harness and then wrap the pad over the top of the head harness. Stretch the pad around the bottom of the head harness and secure the holes over the hooks.

BROW PAD REPLACEMENT AND CLEANING

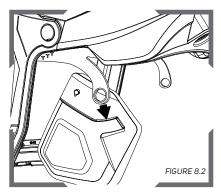


RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

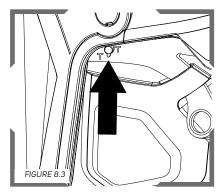
SIDE PADDING SYSTEM



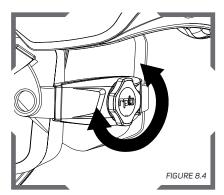
Detach the head harness ratchet at the pivot points.



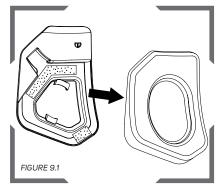
Slide the ends of the head harness into the slots on the side pad covers.



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.

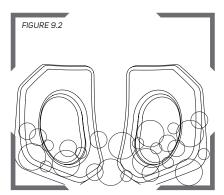


While wearing the Z-LINK, tighten the ratchet adjustment until the helmet and side pads sit comfortably on the head and ears.

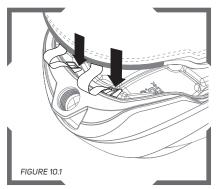


SIDE PADDING SYSTEM CLEANING

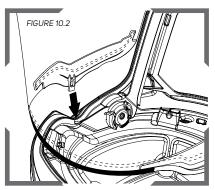
Remove the side pads from the covers that are attached with hook and loop.



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



Start by securing 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.

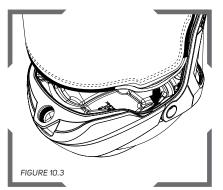


Next attach one of the side clips into the helmet. Make sure the clip goes over the notch on the helmet and the clip edge goes into the track around the edge of the helmet.

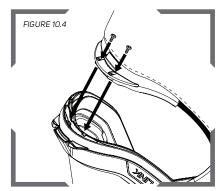
FACE SEAL/CAPE INSTALLATION/REPLACEMENT



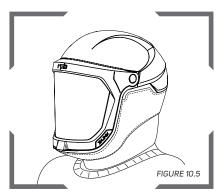
RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED



Press the rubber 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 the back and attach the other side clip. When the back of the cape is tugged on, the strips should keep it from coming out of the track.

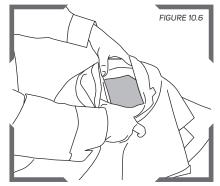


Press the rubber seal in up both sides of the jaw. Insert the front clip into the track around the front of the jaw. Make sure the holes are aligned and insert and tighten the screws to secure the front of the cape.

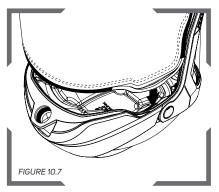


If your face seal or shoulder cape has a rubber seal on the back with a hole in it, push the ratchet knob through the hole. This will allow you to easily adjust the head harness ratchet.

When using a face seal, make sure the neck seal is in contact with the neck all of the way around by tightening the cord.

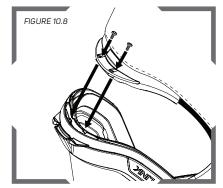


When using a shoulder cape, adjust the elastic cord in the inner collar to ensure a snug fit around the user's neck and pull the fabric down all of the way around over the shoulders so that it lays flat.

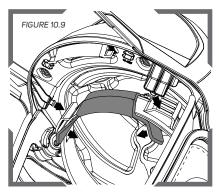


CHIN SEAL INSTALLATION/REPLACEMENT

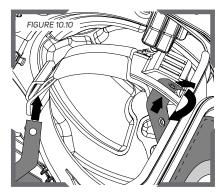
To install the chin seal, insert one side clip like in step 10.2. Then press in the seal around the back of the helmet to the other side clip. Insert the other side clip.



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



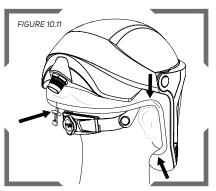
Detach the 2 front head harness clips. Undo the 2 side attachment tabs of the brow pad.



Insert the inner attachment tabs of the chin seal through the slots in the front of the head harness. Secure the snaps. Reattach the brow pad tabs. Reattach the head harness to the front mounting points.

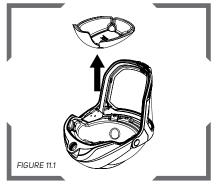


RESPIRATOR SETUP AND CARE - STANDARD CONFIGURATION CONTINUED

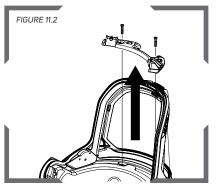


When donning a Z-Link with the chin seal, after putting it on your head, tighten the draw cord using the pull tab on the back. Make sure the seal is against the skin all of the way around. Make sure the seal goes above the ears and around the back of the head, above the ratchet.

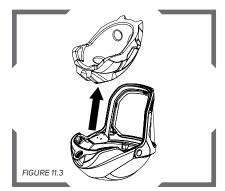
CLEANING THE Z-LINK AND THE PADDING



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.

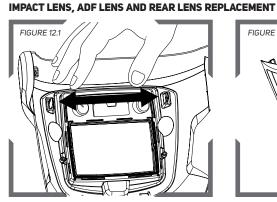


To remove the Impact Liner, remove the head harness bracket by removing the screws holding it in place.

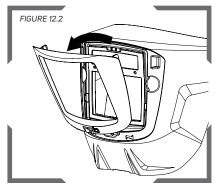


Rotate the Impact Liner out of the helmet shell. The inside of the shell can be wiped with mild liquid detergent or a cleaning wipe.

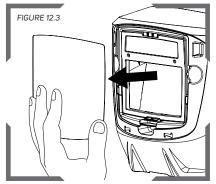
SETUP AND CARE - Z-LINK+ WELDING CONFIGURATION



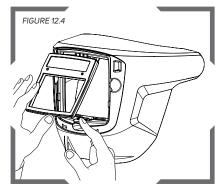
Push the tabs inside the weld visor apart to release the ADF Retainer.



Remove the green ADF Retainer.



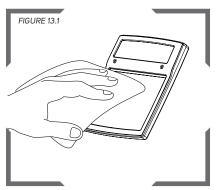
Remove the Impact Lens by squeezing together the sides of the Impact Lens. If just replacing the Impact Lens, then place the new Impact Lens in and replace the green ADF Retainer.



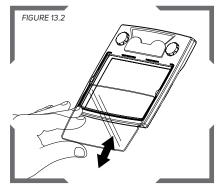
To remove the ADF, push down on the tab at the bottom of the ADF to release it and pull the ADF out.



SETUP AND CARE - Z-LINK+ WELDING CONFIGURATION CONTINUED



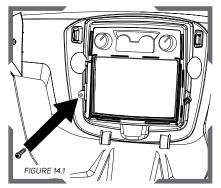
Once removed, the ADF can be cleaned with a soft tissue or a cloth soaked in mild detergent (or alcohol).



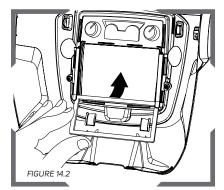
To replace the Rear ADF Lens, slide the lens out and replace it with a new one.

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.

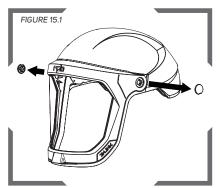
MAGNIFYING LENS



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.

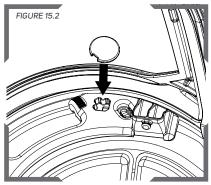


To install the magnifying lens for welding, slide the lens up into the brackets at an angle until it is securely in the brackets.

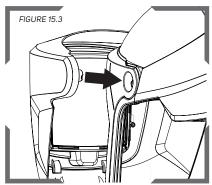


INSTALL/REMOVE WELDING VISOR

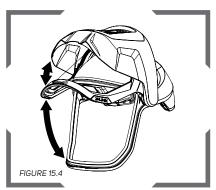
To install the Z-LINK+ Welding Visor, remove the pivot pin caps on the Z-LINK.



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



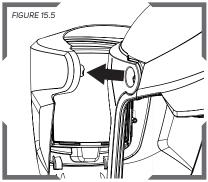
Line up the Weld Visor connection sockets with the Pivot Pins on the Z-LINK and insert them into the Z-LINK until they snap in securely. This can be done while wearing the Z-LINK.



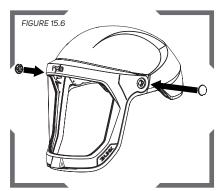
The Welding Visor can be rotated up independently of the Visor or together with the Visor.



SETUP AND CARE - Z-LINK+ WELDING CONFIGURATION CONTINUED



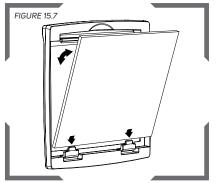
To remove the Weld Visor from the Z-LINK, pull the sides of the Welding Visor out until the connection sockets snap out of the Pivot Pins in the Z-LINK. This can also be done while wearing the Z-LINK.



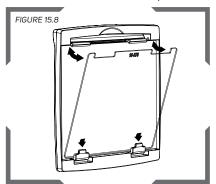
If the Welding Visor is not going to be used again for a while, the socket caps can be snapped back into the Pivot Pins to keep the area free of debris.

INSTALL/REPLACE FIXED SHADE WELDING LENS

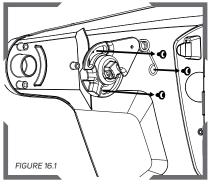
The fixed shade lens and frame can be used in place of the ADF for welding and other applications requiring light filtering. Choose an appropriate shade lens depending on the application. Install the lens frame with a lens installed into the Z-LINK+ the same way as installing an ADF. Do not use the Z-LINK+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



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.

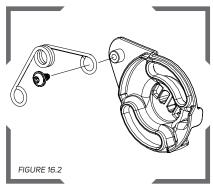


The inner protective lens can be placed into the frame after the fixed shade lens to help protect the inner surface when the weld visor is lifted up to grind welds, etc.

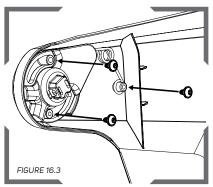


REPLACING THE WELDING VISOR FLIP-UP MECHANISM

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.

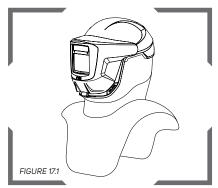


Position the spring onto the new flip up mechanism and secure it with the screw provided.



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.

WELDING SHOULDER CAPE



When welding, be sure to install a RPB Zytec 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 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 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, and cutting, except for gas welding and laser 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 triagering. 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. 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 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.

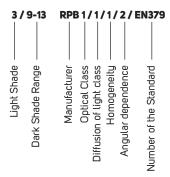
See the "Setup and Care" section for more specific cleaning instructions.

WARRANTY

The warranty period of 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.

MARKINGS

The marking on the ADF indicates:





AUTO-DARKENING WELDING PROTECTION FILTER CONTINUED

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 f lashes.

- 1. Carefully remove battery cover.
- 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.

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 18.1

	Current Amperes																							
Welding Process	1.5	6	10	15	30	40	60	7	70	100	125	15	D	175	200	225	250	30	00	350	400	450	500	600
MMA	8							9			10			11	12					13		14*		
MAG	8							9		10	0 11				12					13				
TIG				8		9				10			11	11			12		13	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		3					
Micro Plasma Welding		4	5		6	7	,		8	9		10			11		12							

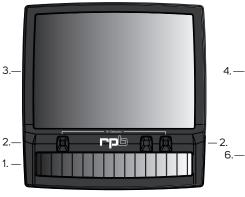
*Shade 14 not achieved with this ADF.

According to the perception of the welder it is possible to use the next higher or lower shadenumber.

DESCRIPTION OF RPB FILTER FEATURES FIGURE 18.2

- 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 18.3

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℃ / 73°F) 0.1 ms (55℃ / 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

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

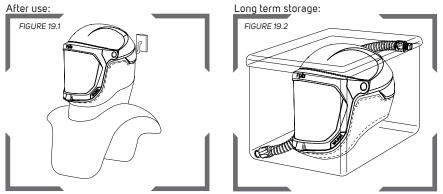
Once you have completed the set up, you are ready to fit your RPB Z-LINK Respirator. Firstly check inside the helmet to ensure that it is free of dust, dirt or contaminants. Then open the bottom of the cape or face seal, with the air flowing from the air source, put the respirator onto your head. Pull 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.



PX5 and the PX4 AIR may need to be stored separately, refer to the PX5 or the PX4 AIR Instruction manual for specific storage instructions.

PRODUCT CARE INSTRUCTIONS

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

Capes, face seals and chin 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.

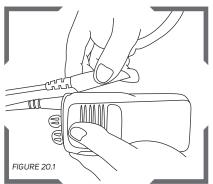
■ Padding: Hand wash only with mild detergent and warm water. Lay flat to dry.

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

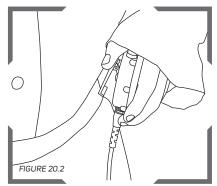


COMMS-LINK[®] **INSTRUCTIONS**

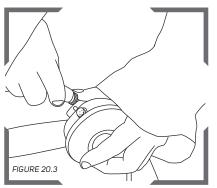
SET UP



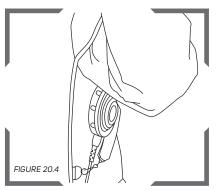
Connect the PTT Cable to the Hand Set depending on the type used.



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

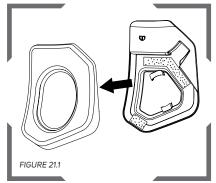


Connect the PTT cable to the head set cable and place the cable underneath the cape.

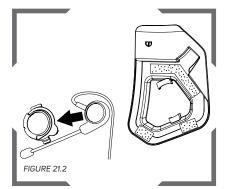


To operate the device, press your elbow onto the PTT Button, and then speak.

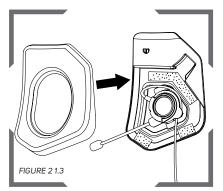
INSTALLATION



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.

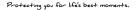


Place the Communication ear piece into the attachment clip. Then attach the Communication Clip into the slots on the inside of the cover.

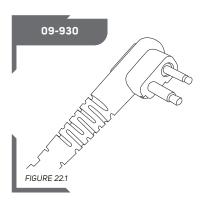


Attach the side pad back onto the cover over the Communication.





RADIO CONNECTORS COMPATIBILITY

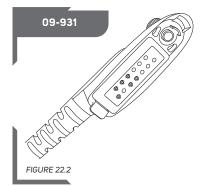


MOTOROLA®

AXU4100, AXV5100, BPR40, CLS1110, CLS1410, CLS1413, CLS1450C, CLS1453C, CP100, CP150, CP185, CP200, CP88, CT125, CT150, CT450, CT450, CT450, CT450, DTR, DTR410, DTR550, DTR650, GP200, GP2000, GP300, GP308, GP68, GP88, GTI, GTX, LTS2000, P040, P080, P110, P1225, P1225LS, P2000, P2000, PR400, RDK, RDU, RDU2020, RDU2080D, RDU41000, RDU4160D, RDV, RDV2020, RDV2080D, RDV5100, SP10, SP21, SP50, VL50, XTN, XTN446, XTN500, XTN600, XU1100, XU2100, XU2600, XV1100, XV2100, XV2600

RELM®

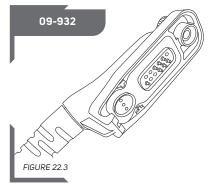
RPU6500, RPV6500



HYT® TC-980

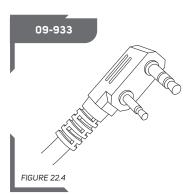
MOTOROLA®

CBPRO, GP1280, GP140, GP320, GP328, GP329, GP338, GP339, GP340, GP360, GP380, GP640, GP650, GP680, GP960, HT1250, HT1250, HT1550, HT1550, JT1000, MTX8250, MTX8250, STX1550, MTX850, MTX850LS, MTX9250, MTX950, PR660, PR05150, PR05350, PR05450, PR05550, PR05750, PR07150, PR07350, PR07450, PR07550, PR07750, PR09150, PTX700, PTX780



MOTOROLA® Turbo

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



HYT®

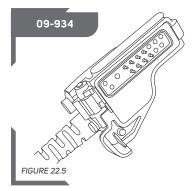
TC-268, TC-268S, TC-270, TC-368, TC-368S, TC-370

KENWOOD®

TH-22AT, TH-235A, TH-28A, TH-42AT, TH-48A, TH-77A, TH-78A, TH-D7A(6), TH-F6, TH-F6A, TH-67A, TH-K2AT, TK-208, TK-2100, TK-2102, TK-2130, TK-2160, TK-220, TK-2200, TK-2200LP, TK-2212L, TK-2302VK, TK-240, TK-240D, TK-248, TK-250, TK-260, TK-2600, TK-270, TK-2706, TK-2726, TK-308, TK-3100, TK-3101, TK-3102, 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-3553, TK-360, TK-3606, TK-370, TK-3706, TK-3726, TK-373, TK-430, TK-431, TK-2312, TK-3312

RELM®

RPU416, RPU4200, RPU499, RPV4200, RPV516, RPV599X

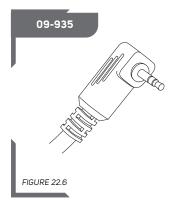


EF JOHNSON®

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, XT51500, XT52500, XT52500, XT53500, XT53500, XT55000, GP1200



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

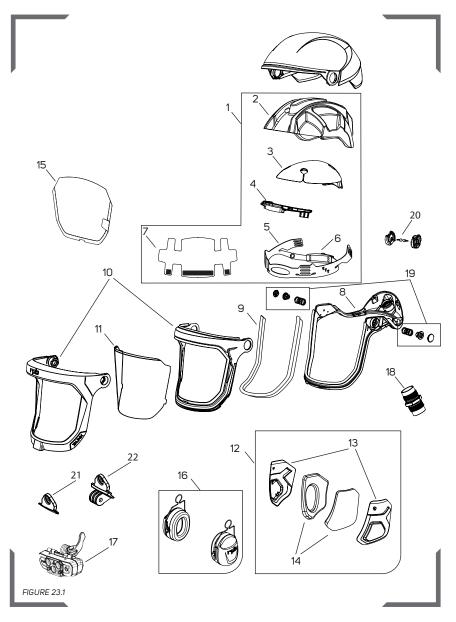


MOTOROLA®

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, T5720, T520, T6300, T6320, T6400, T6500, T7200, T400, T6520, T6550, T6300, T6320, T6400, T6500, T7200, T400, T8500, T8550, T9500XLR, T9550XLR, T9580R, T9680R, T9750R, TalkAbout



PARTS AND ACCESSORIES



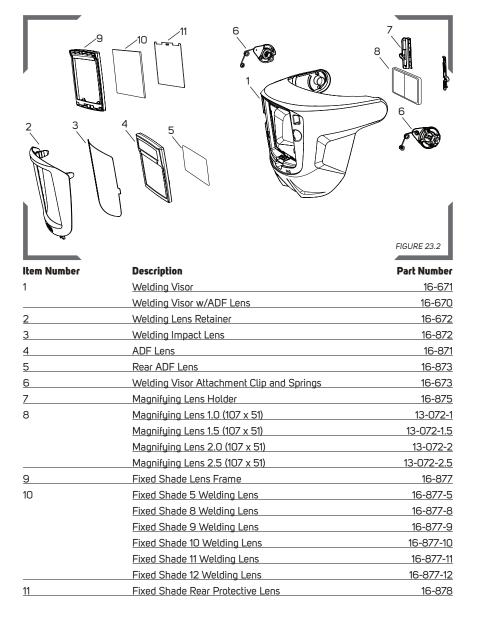
PARTS LIST

Item Number	Description	Part Number
1	Comfort-Link (16-521, 522, 525, 526, 530, 531)	16-520-T
2	Impact Absorber	16-521
3	Comfort Pad	16-522
4	Head Harness Bracket and Air Director	16-525
5	Head Harness	16-531
6	Ratchet Adjuster Assembly	16-530
7	Head Harness Brow Pad	16-526
8	Jaw with Lens Seal	16-514
9	Lens Seal	16-515
10	Visor - Inner and Outer	16-611
11	Safety Lens - Anti-Fog/Anti-Scratch	16-810
	Safety Lens Smoke Tinted - AF/AS	16-810-ST
	Safety Lens Yellow - AF/AS	16-810-YT
	Safety Lens Smoke Tinted Mirror - AF	16-810-SM
	Safety Lens IR Tinted Shade 3	16-810-IR3
	Safety Lens IR Tinted Shade 5	16-810-IR5
12	Side Padding System	16-520-S
13	Side Padding Frames	16-527
14	Foam Side Pads	16-528
15	Tear-Off Lenses	16-811
16	Quiet-Link Helmet Earmuffs	18-533
17	Vision-Link Light	16-901
18	Breathing Tube Adapter	16-519
19	Pivot Assembly - Springs, Pivot Pins, and Caps	16-616
20	Earmuff Mounting Brackets with screws	16-516
21	Front Cape Clip Cover	15-831
22	Front Cap Clip - Vision-Link Mount	15-839

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



CAPES AND FACE SEALS

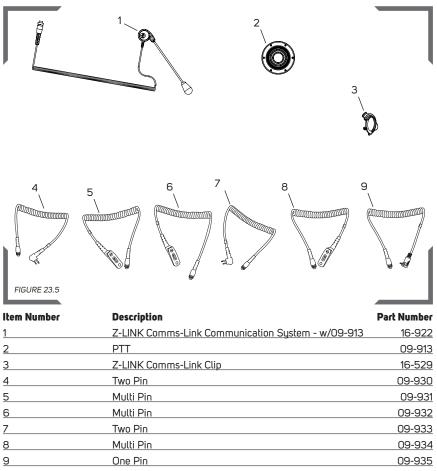
Item NumberDescriptionPart Number1Zytec Face Seal16-711Tychem® 2000 Face Seal16-712Tychem® 4000 Face Seal16-7132Zytec Shoulder Cape16-721Tychem® 2000 Shoulder Cape16-722Tychem® 4000 Shoulder Cape16-7233Zytec Chin Seal16-731Tychem® 4000 Chin Seal16-733	1 3 6 6 6 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7		
I Zytec Face Seal 16-711 Tychem® 2000 Face Seal 16-712 Tychem® 4000 Face Seal 16-713 Z Zytec Shoulder Cape 16-721 Tychem® 2000 Shoulder Cape 16-722 Tychem® 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731	Item Number	Description	Part Number
Tychem® 2000 Face Seal 16-712 Tychem® 4000 Face Seal 16-713 2 Zytec Shoulder Cape 16-721 Tychem® 2000 Shoulder Cape 16-722 Tychem® 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731	1		
Tychem [®] 4000 Face Seal 16-713 2 Zytec Shoulder Cape 16-721 Tychem [®] 2000 Shoulder Cape 16-722 Tychem [®] 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731			
Zytec Shoulder Cape 16-721 Tychem® 2000 Shoulder Cape 16-722 Tychem® 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731			
Tychem® 2000 Shoulder Cape 16-722 Tychem® 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731	2		16-721
Tychem® 4000 Shoulder Cape 16-723 3 Zytec Chin Seal 16-731			
3 <u>Zytec Chin Seal</u> 16-731			
	3		
			16-733



Z-LINK® RADIANT HEAT PARTS AND ACCESSORIES

5		
FIGURE 23.4		
Item Number	Description	Part Number
1	Radiant Heat Gold Visor c/w Cover Clip, Retainer Assembly	16-675-GT
	Radiant Heat Gold Visor IR5 c/w Cover Clip, Retainer Assembly	16-675-GTIR5
	IR5 Visor - not plated c/w Cover Clip, Retainer Assembly	16-675-IR5
2	Aluminized Top Cover	16-744
3	Aluminized Rear Cover	16-754
4	Aluminized Shoulder Cape	16-724
5	Aluminized Breathing Tube Cover	04-855

COMMS-LINK[™] PARTS AND ACCESSORIES



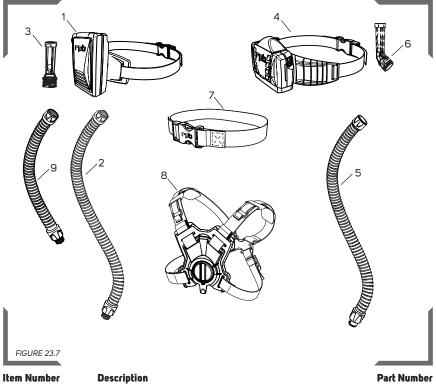
Other Radio Connectors may be available.



AIR SUPPLY HOSES AND FITTINGS

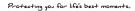
SERIES	1. COUPLERS	2. PLUGS	3. BREATHING AIR LINE ASSEMBLIES	
RPB® Quick Disconnect	NV2025 1/4" FM NPT	03-012-PM 1/4" M NPT 03-013-PM 3/8" M NPT 03-012-PMS 1/4" M NPT Swivel	NV2028 RPB 25ft 3/8" NV2029 RPB 50ft 3/8" NV2027 RPB 100ft 3/8" 04-412-15 RPB 15ft 04-412-25 RPB 25ft	
Schrader Twist Lock	03-042-CF 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 04-442-15 Schrader 15ft 04-442-25 Schrader 25ft	
RPB RZ Quick Connect		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	
25ft	50ft		100ft	
a				
15ft				
FIGURE 23.6	25ft		,1]≫	

PAPR PARTS AND ACCESSORIES

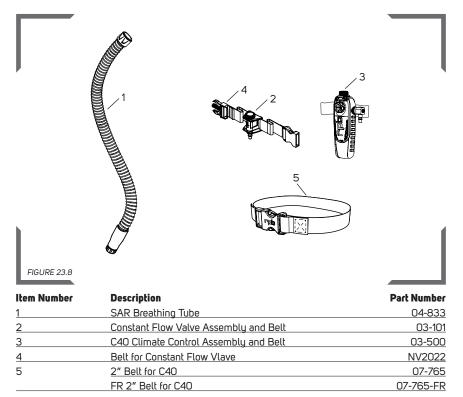


Item Number	Description	Part Number
1	PX5 PAPR and Belt	03-801
2	PAPR Breathing Tube	04-831
3	PAPR Flow Meter	03-819
4	PX4 AIR PAPR and Belt	03-901
5	Breathing Tube for PX4 AIR PAPR	04-837
6	Flow Meter PX4 AIR	04-091
7	2″ Belt for PX4 and PX5	07-765
	FR 2" Belt for PX4 and PX5	07-765-FR
8	FR Backpack Assembly for PX5	03-822-FR
	Easy Clean Backpack Assembly for PX5	03-822-DC
9	Short Breathing Tube for Backpack Assembly for PX5	04-841
	Short Breathing Tube for Backpack Assembly (for Z3) for PX5	04-842





FLOW CONTROL DEVICES



LIMITED WARRANTY

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

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

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

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

LIABILITY

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

OTHER PRODUCTS

RPB[®] QUIET-LINK[™] EAR DEFENDERS

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

COMMS-LINK™

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

RPB PX5 PAPR

The 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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Protecting you for life's best moments.