



T-LINK® UI R13

GVS-RPB.COM

Instruction Manual T-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 11).

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

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



NIOSH
APPROVED



CONTENTS

■ EXPLANATION OF SIGNAL WORDS AND SYMBOLS	2
■ INTRODUCTION	3
■ IMPORTANT SAFETY INFORMATION	
□ PROTECTION PROVIDED AND LIMITATIONS	4
□ RESPIRATORY COMPONENT DIAGRAMS - NIOSH CAUTIONS & LIMITATIONS	6
□ AIR SOURCE, FITTINGS, AND PRESSURE	8
□ EMPLOYER RESPONSIBILITIES	9
□ PRODUCT USER SAFETY INSTRUCTIONS	11
□ BREATHING AIR PRESSURE TABLE	14
■ RESPIRATOR SETUP AND CARE	16
■ DONNING AND DOFFING	25
■ STORAGE	25
■ COMMUNICATIONS	
□ COMMS-LINK™ COMMUNICATION SYSTEM	26
□ RADIO CONNECTOR COMPATIBILITY	28
■ PARTS AND ACCESSORIES	30
■ WARRANTY AND LIABILITY STATEMENT	36

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.
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 DANGER	DANGER Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
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Read the Instruction Manual.

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

GVS® Safety LLC is an ISO9001 certified company.

INTRODUCTION

The T-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 painting, chemical handling and other industrial applications. When the Zytec® material is used, the hood can be used for grinding, brazing, and other industrial applications where fire retardant is needed. The optional Quiet-Link™ Ear Defender earmuff system can add hearing protection. 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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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 gvs-rpb.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 11).

CHECK WEBSITE FOR UPDATES. Product manuals are regularly updated. Visit gvs-rpb.com/ resources for the most recent version of this manual before using the product.

PROTECTION PROVIDED AND LIMITATIONS

RESPIRATION

The GVS T-LINK is approved by NIOSH as a Type C respirator in the categories as follows:

Powered Air

The GVS T-LINK Respirator, when properly fitted and used with all required components, including the Breathing Tube Assembly and the GVS PX5® 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 GVS PX5 PAPR (see PX5 Instruction Manual).

Supplied Air

The GVS T-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 GVS 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 GVS RADEX® Airline Filter. Specific protection depends on the setup of the airline filter (see the GVS RADEX Instruction Manual).

HAZARD LIMITATIONS

The GVS T-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, PX5, Vision-Link, 16-922 Comms-Link or 09-913 PTT.

FACE AND EYES:

- The T-LINK with **Safety Lens** meets ANSI Z87.1 face shield requirements and is designed for painting and other industrial applications.
- The T-LINK is not designed or tested to provide protection against molten metals or corrosive liquids.
- **Note:** Safety glasses may be required to be worn depending on the job hazard analysis. The T-LINK does not protect against the potential transfer of impact to glasses worn underneath the hood. It does not provide complete eye and face protection against severe impact and penetration and is not a substitute for good safety practices and engineering controls.

HEAD:

- The T-LINK, when equipped with the standard lightweight helmet, is designed to act as a bump cap, with minimal head protection. It does not meet the ANSI/ISEA Z89.1 requirements in this configuration.
- The T-LINK, when equipped with the optional hard hat, meets the ANSI/ISEA Z89.1 requirements for physical head protection as a hard hat. The helmet is design 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 T-LINK, the Quiet-Link Ear Defender system provides an Noise Reduction Rating (NRR) of 25. 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 GVS T-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.

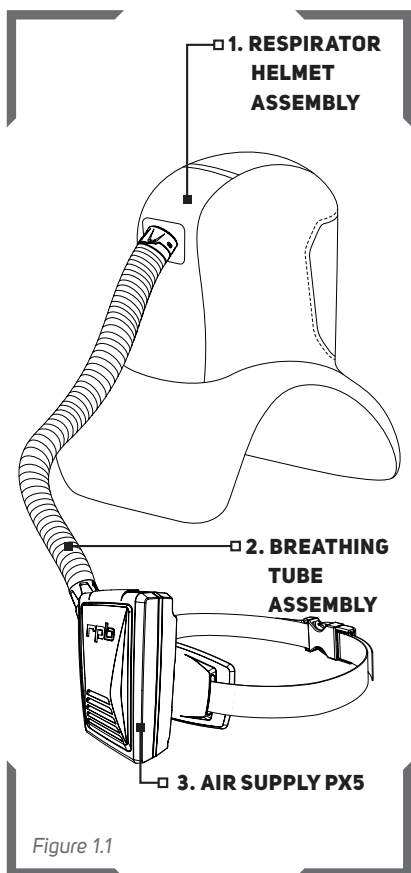


Figure 1.1

NIOSH - CAUTIONS AND LIMITATIONS

POWERED AIR

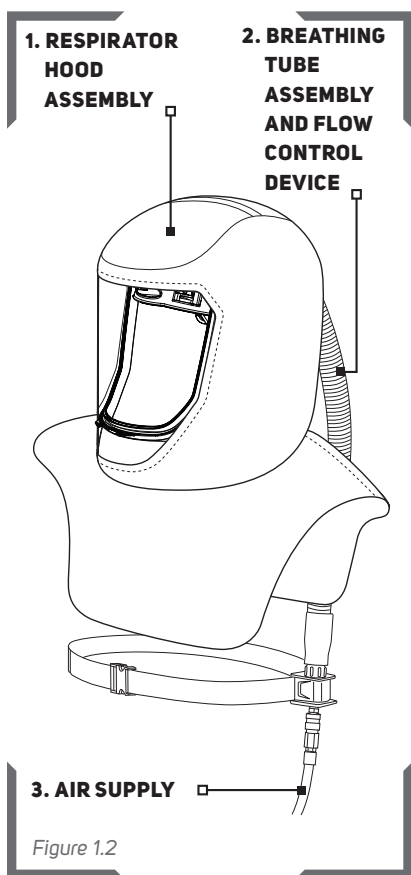
- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health.

- 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 ESL 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's 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.

PLACE NIOSH APPROVAL LABEL HERE.

RESPIRATOR COMPONENT DIAGRAM - SAR

The GVS T-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.
- 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.
- 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 "Breathing Air Pressure Table" 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 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 GVS T-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

GVS 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 GVS 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/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 PX5 PAPR or Supplied Air 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 T-LINK's use, maintenance, and limitations.**

Appoint a qualified individual who is knowledgeable about the GVS T-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

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

Train each T-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 air supply 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 GVS.**

- Call Customer Service Department at:

Tel: 1-866-494-4599

Email: respirators@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 or the flow control device Instruction Manual (additional copies available at gvs-rpb.com) and been trained in the respirator's use, maintenance, and limitations by a qualified individual (appointed by your employer) who is knowledgeable about the GVS T-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. Follow all cleaning and care instructions provided in the instruction manuals for this and any other GVS 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 T-LINK to serve as a complete NIOSH approved respirator:

- Respirator Hood Assembly T-LINK)
- Breathing Tube Assembly
- Flow Control Device (PX5, Constant Flow Valve, or C40 Climate Control Device)
- Breathing Air Line (Supplied Air)

See *Respirator Component Diagram* (page 6-7). The GVS T-LINK is only approved to be used with the GVS PX5 PAPR, GVS Constant Flow Valve, or GVS C40 Climate Control Device. Use only authentic GVS 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-GVS 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 hood or helmet that has been subject to impact, from service until repaired or replaced. Scratched or damaged lenses or other components should be replaced with genuine GVS brand replacement parts. When the hood is 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. An incomplete or improperly installed hood could provide inadequate impact and respiratory protection. See *Respirator Setup and Care* (page 16) See *Donning* (page 25) for fit information.



PRODUCT USER SAFETY INSTRUCTIONS CONTINUED

VERIFY THAT YOU HAVE THE APPROPRIATE EQUIPMENT FOR YOUR ACTIVITY

Verify that the T-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 T-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.

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 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.
- A flammable or explosive atmosphere is present when used with systems including electrical parts that are not intrinsically safe, PX5, Vision-Link, 16-922 Comms-Link or 09-913 PTT.
- 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).

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 GVS. This product may be adversely affected by certain chemicals. See the "Respirator Setup and Care" section (page 16) for more specific cleaning instructions.

INSTRUCTIONS FOR SPECIFIC USES OR ENVIRONMENTS

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.



BREATHING AIR PRESSURE TABLE

S - SPECIAL OR CRITICAL USERS INSTRUCTIONS - SAR

TABLE 1.1

This table lists air pressure ranges needed to provide the GVS T-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 04-833 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	03-500 C40 Climate Control Assembly	25	1	55-80
			50	1	60-85
			100	2	65-95
			150	3	70-95
			200	4	75-100
			250	5	80-100
			300	6	90-100
	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	20-22
			50	1	24-26
			100	2	28-30
			150	3	32-34
			200	4	36-38
			250	5	38-40
			300	6	44-46
	03-500 C40 Climate Control Assembly With Schrader Fitting	03-500 C40 Climate Control Assembly With Schrader Fitting	25	1	65-80
			50	1	70-85
			100	2	75-95
			150	3	80-95
			200	4	85-100
			250	5	90-100
			300	6	95-100

1. AIR SOURCE	2. AIR SUPPLY HOSE	3. FLOW CONTROL DEVICE USED WITH 04-833 BREATHING TUBE ASSEMBLY	4. SUPPLY HOSE LENGTH (FT)	5. MAX NUMBER OF SECTIONS	6. PRESSURE RANGE (PSIG AIR)
Portable or Stationary Compressor	04-412-15 (15ft) 04-412-25 (25ft)	03-101 Constant Flow Valve Assembly (High Pressure)	15 25	1 1	9-14 11-15
		03-500 C40 Climate Control Assembly	15 25	1 1	55-80 55-80
	04-442-15 (15ft) 04-442-25 (25ft)	03-101 Constant Flow Valve Assembly (High Pressure) With Schrader Fitting	15 25	1 1	21-30 23-33
		03-500 C40 Climate Control Assembly With Schrader Fitting	15 25	1 1	65-80 65-80



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 you are using (column 2) and the flow control device (column 3) you are using..
3. Check your GVS 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.

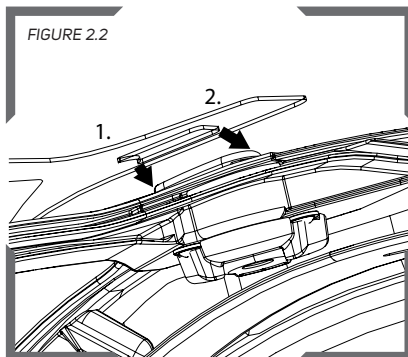
If the Breathing Air Lines and Flow Control Device have RZ™ fittings, they will only attach to other RZ fittings. They will not work with Universal Couplers. Do not modify air line fittings. RZ fittings prevent connection to unsafe air sources.

RESPIRATOR SETUP AND CARE

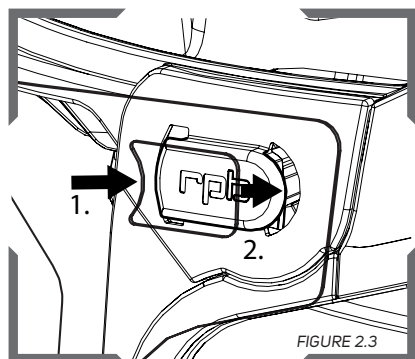
PLACING THE HELMET INTO THE HOOD



Insert the helmet into the hood with front of the Helmet towards the lens of the hood.

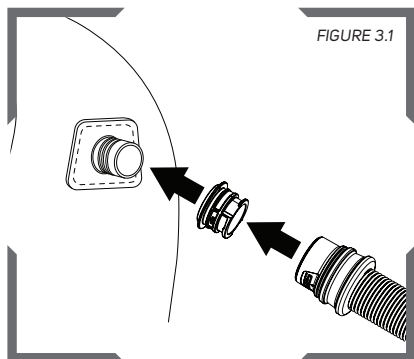


Line up the tabs of the lens with the clips on the sides of the helmet. 1. Slide the 1st side under the front side of the clip and slide back. 2. Snap the 2nd side of over the back of the clip.



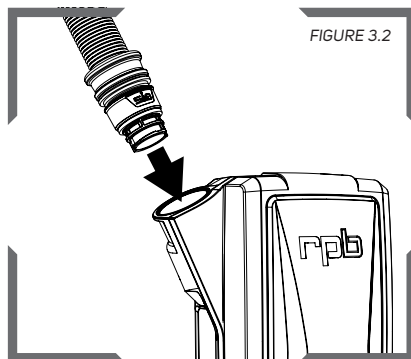
Do the same thing on the other side to fully secure the lens and the hood to the Helmet.

BREATHING TUBE AND ADAPTOR



Screw on the breathing tube adaptor onto the inlet of the T-Link by threading it on until tight. Be careful not to over tighten and crack the inlet area of the T-Link. Twist the breathing tube onto the adaptor once it is installed on the T-Link.

POWERED AIR



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

FOR USE WITH GVS PX5 - SEE THE PAPR USER MANUAL

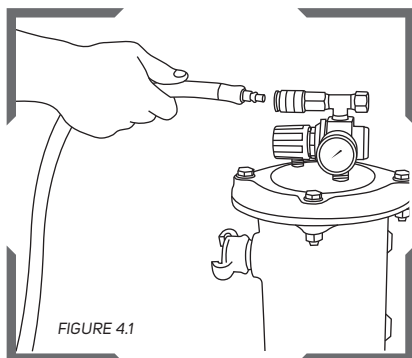
When the T-LINK Respirator is being used in conjunction with the GVS PX5 PAPR, please refer to the PX5 Instruction Manual for set up and use of the assembly.

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

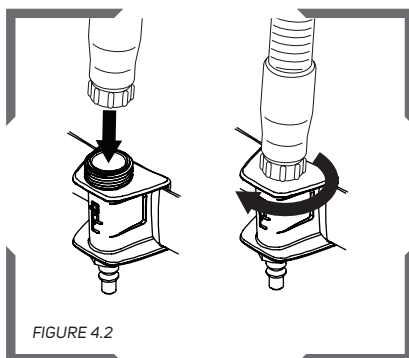
RESPIRATOR SETUP AND CARE CONTINUED

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

SUPPLIED AIR

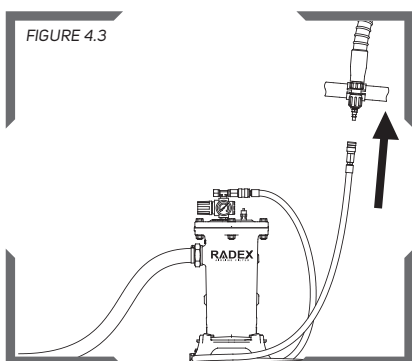


Connect the Breathing Air Supply Hose to the point of attachment (04-900 Radex Airline Filter) shown.

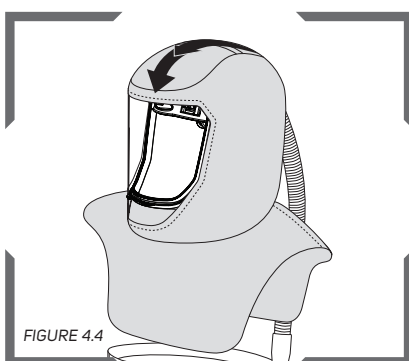


Connect the Breathing Tube to the flow control device.

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

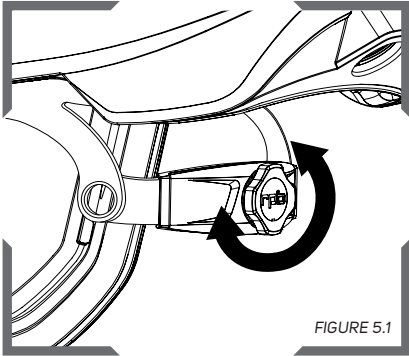


Now connect the Breathing Air Supply Hose to the Flow Control Device. Air should be now flowing through the Respirator.

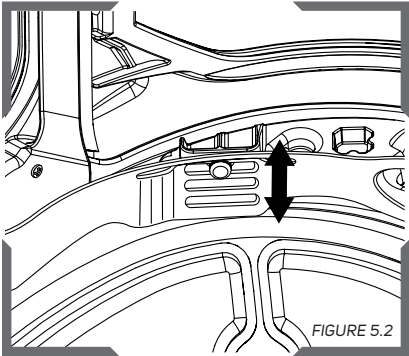


With air flowing through the respirator adjust the air pressure at the point of attachment to the recommended pressure as specified in the Breathing Air Pressure Table (page 14).

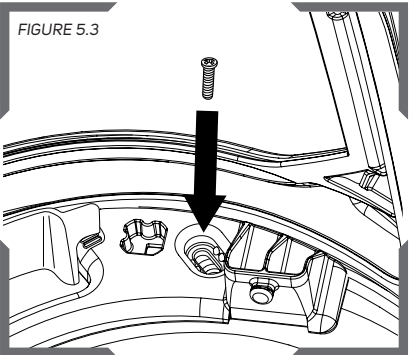
HEAD HARNESS ADJUSTMENT



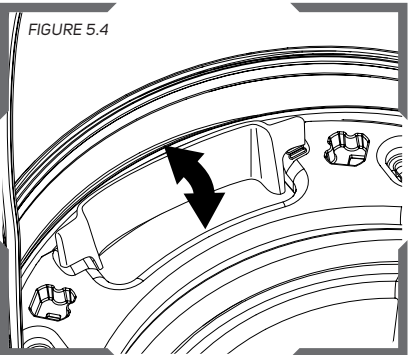
The head harness can be tightened or loosened using the ratchet knob on the back of the headband.



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



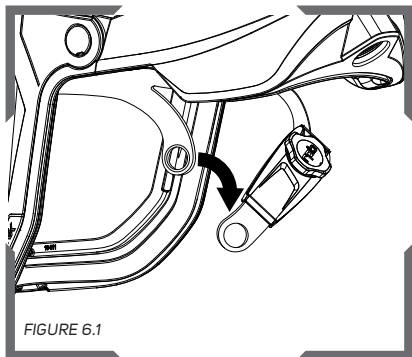
The position of the head harness can be adjusted by loosening the screws that hold the front bracket and sliding it forward or backwards into the desired slot. Once in position, tighten the screws.



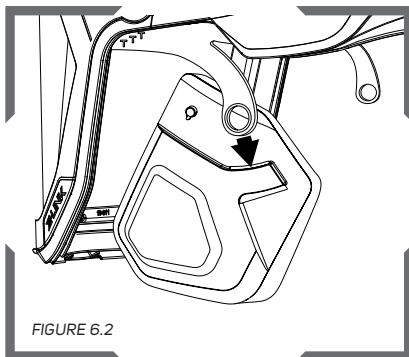
Airflow can be directed by positioning the air flow director so that the air flows more towards the visor or towards the face.

RESPIRATOR SETUP AND CARE CONTINUED

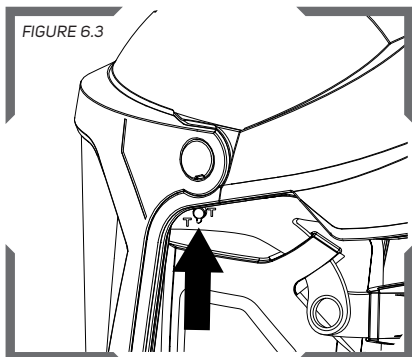
SIDE PADDING SYSTEM



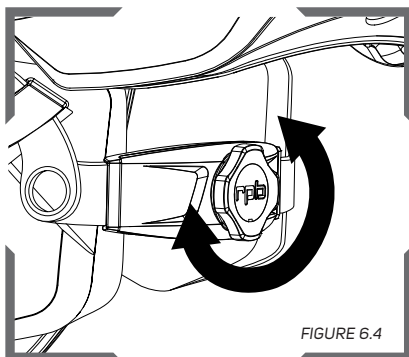
Detach the head harness ratchet at the pivot points.



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



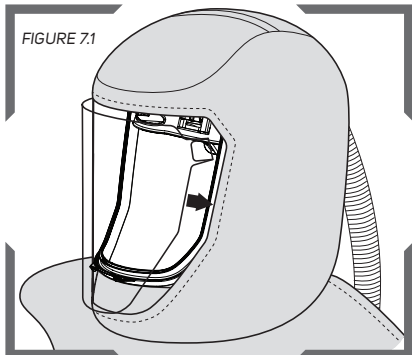
Slide the tab on the side pad covers into one of the three T-shaped slots in the head harness depending on the desired height of the side pads. Reinsert the ratchet pivot points.



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

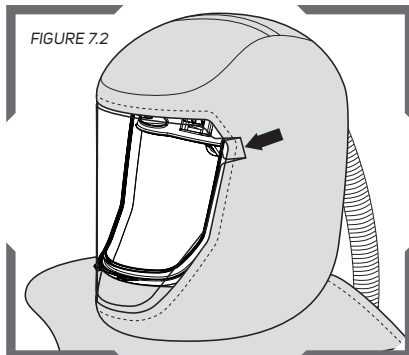
CLEAR-VISION CASSETTE LENSES

FIGURE 7.1



Peel off the backing of the cassette lenses and apply the lenses to the outside of the lens sewn into the hood.

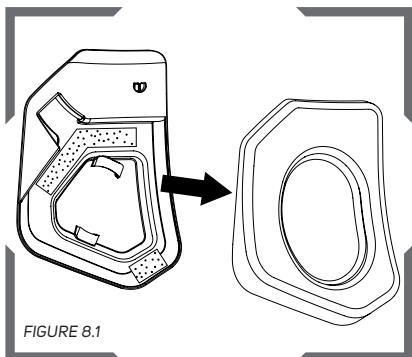
FIGURE 7.2



Use the folded over tabs to remove each lens as needed.

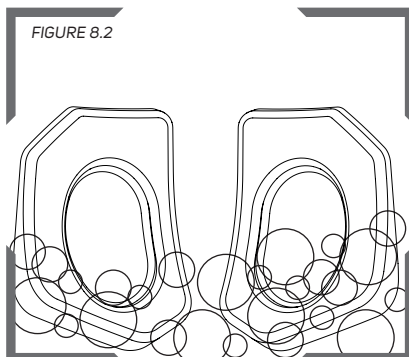
SIDE PADDING SYSTEM CLEANING

FIGURE 8.1



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

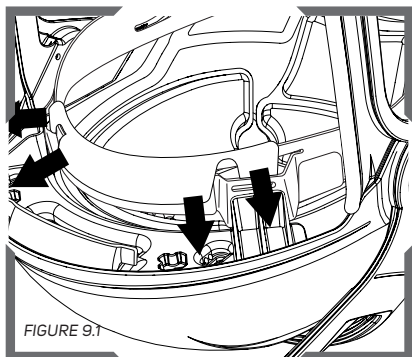
FIGURE 8.2



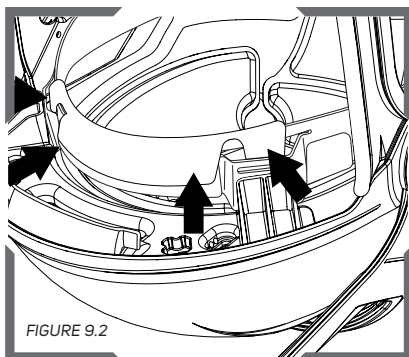
Wash the pads with mild detergent. Once dry, reattach them to the side pad covers.

RESPIRATOR SETUP AND CARE CONTINUED

BROW PAD REPLACEMENT AND CLEANING



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.

CLEANING THE T-LINK® AND THE COMFORT PADDING

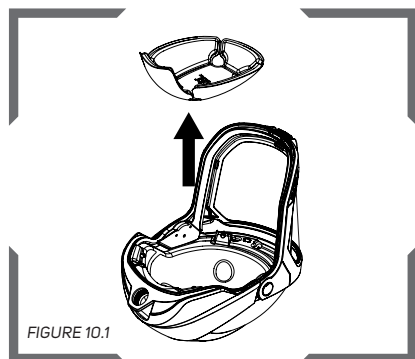


FIGURE 10.1

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

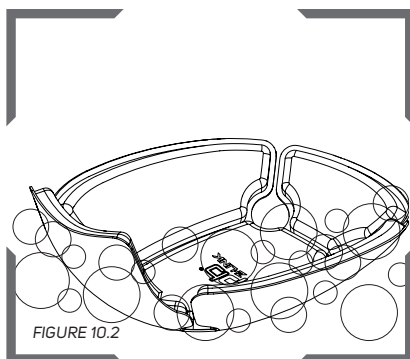


FIGURE 10.2

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

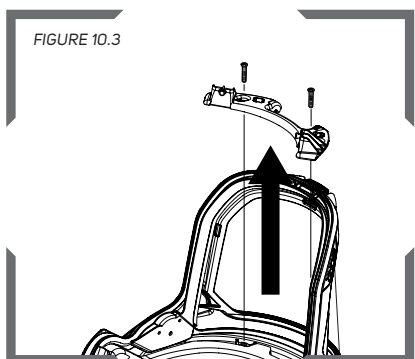


FIGURE 10.3

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

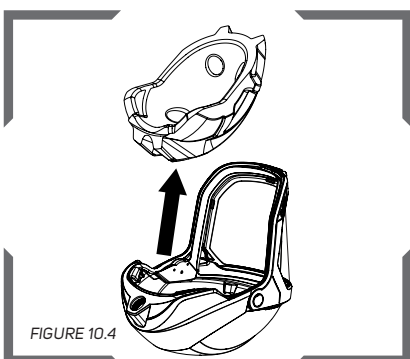


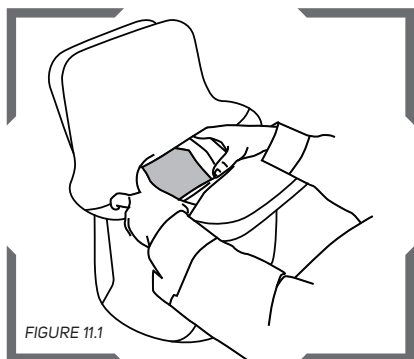
FIGURE 10.4

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.

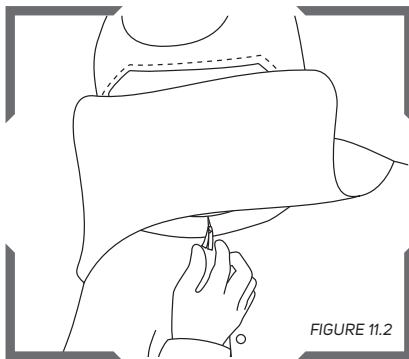
DONNING AND DOFFING

DONNING YOUR HELMET

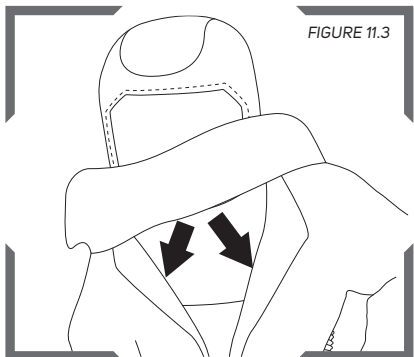
Once you have completed the set up, you are ready to fit your GVS T-LINK Respirator. Firstly check inside the hood and helmet to ensure that it is free of dust, dirt or contaminants. Then open the bottom of the cape or face seal, with the air flowing from the air source, put the respirator onto your head. Pull the hood down, tighten the head harness ratchet to fit, then make sure the neck seal is sealing around your neck. Tuck the inner bib in under your coveralls or other outer garment. Pull the outer bib down over your shoulders and make sure it is laying flat on your chest and back so that it does not get in the way of your work.



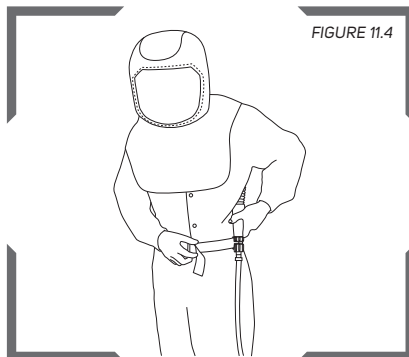
Open the bottom of the hood with the air flowing from the air source, put the respirator onto your head. Make sure the hood is centered on your head.



Pull the hood down, tighten the head harness ratchet to fit, and make sure the neck seal is sealing around your neck, making sure the elastic is tied securely.



Tuck the inner bib into the collar of your shirt, coveralls, or protective gear to prevent contaminants from entering the hood. Pull the outer bib down.



Fasten the flow control device belt around your waist over hip.



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.

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.

INSPECTION

If the hood is contaminated or show excessive wear, dispose of the hood according to federal and local regulations. Keep the helmet, breathing tube, and other parts for future use if they are in good condition.

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 T-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 may need to be stored separately, refer to the PX5 Instruction manual for specific storage instructions.

After use:

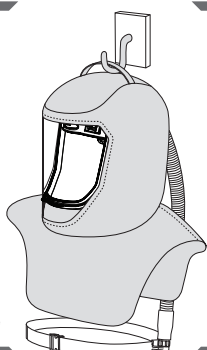


FIGURE 12.1

Long term storage:

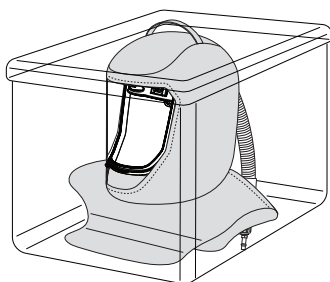
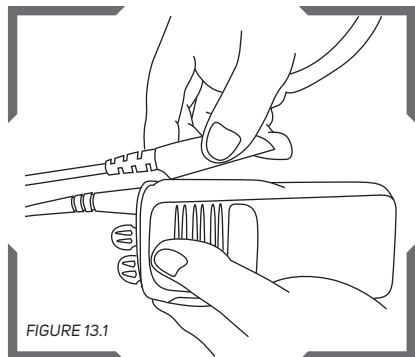


FIGURE 12.2

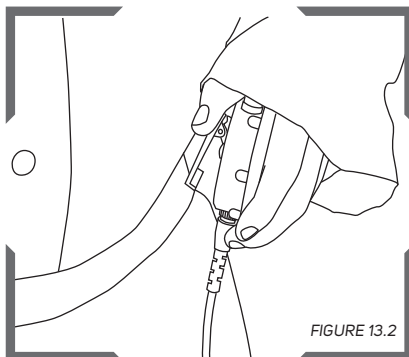


COMMS-LINK™ INSTRUCTIONS

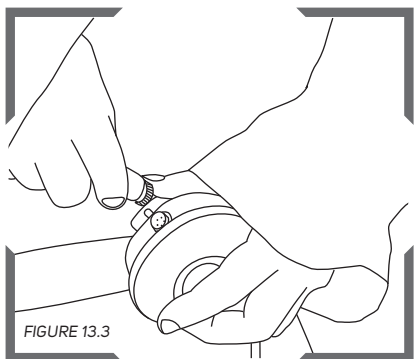
SET UP



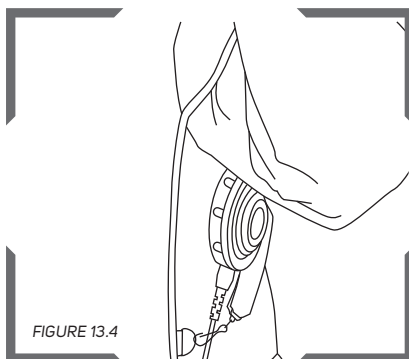
Connect the PTT Cable to the Hand Set depending on the type used.



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

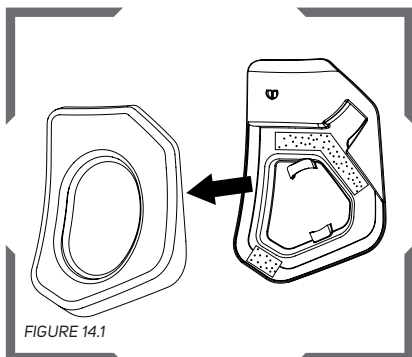


FIGURE 14.1

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

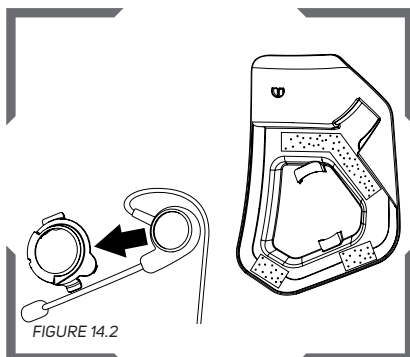


FIGURE 14.2

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

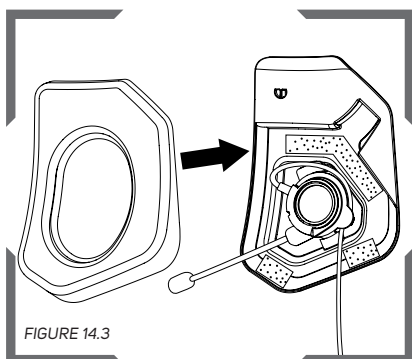


FIGURE 14.3

Attach the side pad back onto the cover over the Communication. Insert the side pad back into the helmet.

RADIO CONNECTORS COMPATIBILITY

09-930

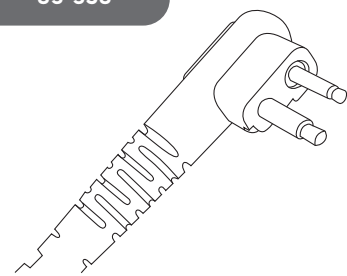


FIGURE 15.1

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, GT1, 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

RPV6500, RPV6500

09-931

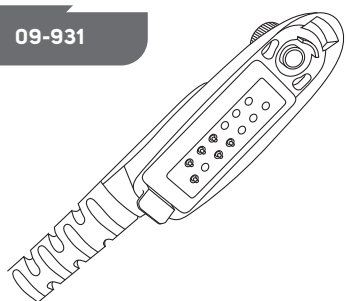


FIGURE 15.2

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

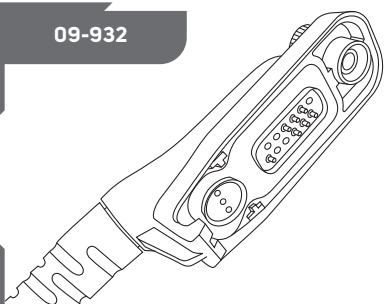


FIGURE 15.3

MOTOROLA

Turbo

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

09-933

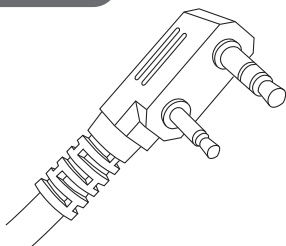


FIGURE 15.4

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

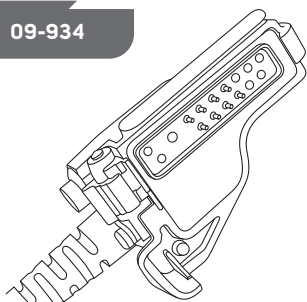


FIGURE 15.5

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

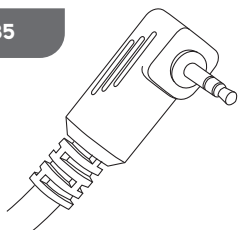


FIGURE 15.6

COBRA

CXR700, CXR800, CXR900, CXR920, CXT400, LI Series, LI3900, LI5600, LI6000, LI6500, LI6700, LI7000, LI7020, MRH100, MRH200, 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

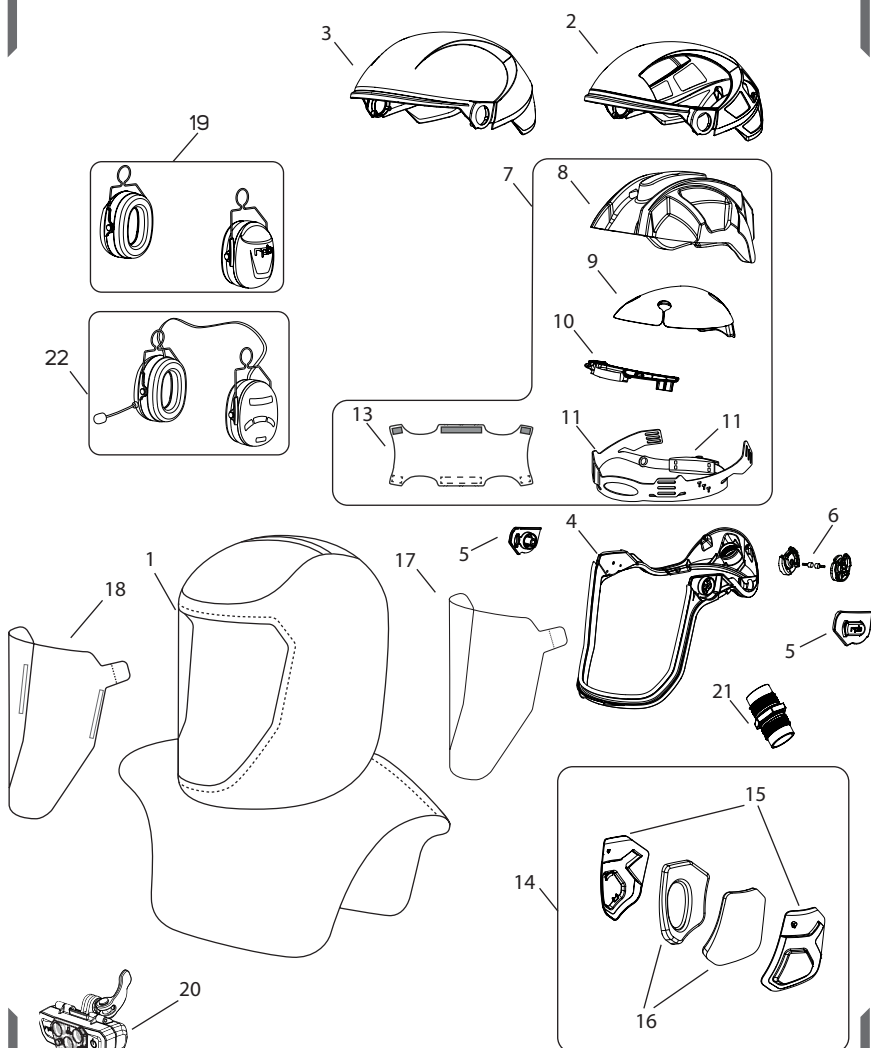


FIGURE 16.1

PARTS LIST

Item Number	Description	Part Number
1	Tychem® 2000	17-712
	Tychem® 2000 - Safety Lens	17-712-S
	Tychem® 4000 - Sealed Seams	17-713
	Tychem® 4000 - Sealed Seams, Safety Lens	17-713-S
	Tychem® 4000 - Sealed Seams, Safety Lens, Extra Long	17-713-SX
	Zytec® - Safety Lens	17-711
2	Lightweight Helmet Shell	17-511
3	Hard Hat Helmet Shell	16-511
4	Jaw	16-514
5	Lens Clips (Left and Right Pair)	17-512
6	Mounting Brackets with screws	16-516
7	Comfort-Link™ (16-521, 522, 524, 525, 530, 531)	16-520-T
8	Impact Absorber	16-521
9	Comfort Pad	16-522
10	Head Harness Bracket and Air Director	16-525
11	Head Harness	16-531
12	Ratchet Adjuster Assembly	16-530
13	Head Harness Brow Pad	16-526
14	Side Padding System	16-520-S
15	Side Padding Frames	16-527
16	Foam Side Pads	16-528
17	Clear-Vision Cassette Lens (1 cassette of 7 lenses) (Pack of 10)	17-817
18	Peel-Off Lenses (Pack of 25)	17-815
19	Quiet-Link Helmet Earmuffs	18-533
20	Vision-Link Light	16-901
21	Breathing Tube Adapter	16-519
22	SENA® Tufftalk M-02 - Helmet Mounted Communication Earmuffs	18-534



WARNING

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

PAPR PARTS AND ACCESSORIES

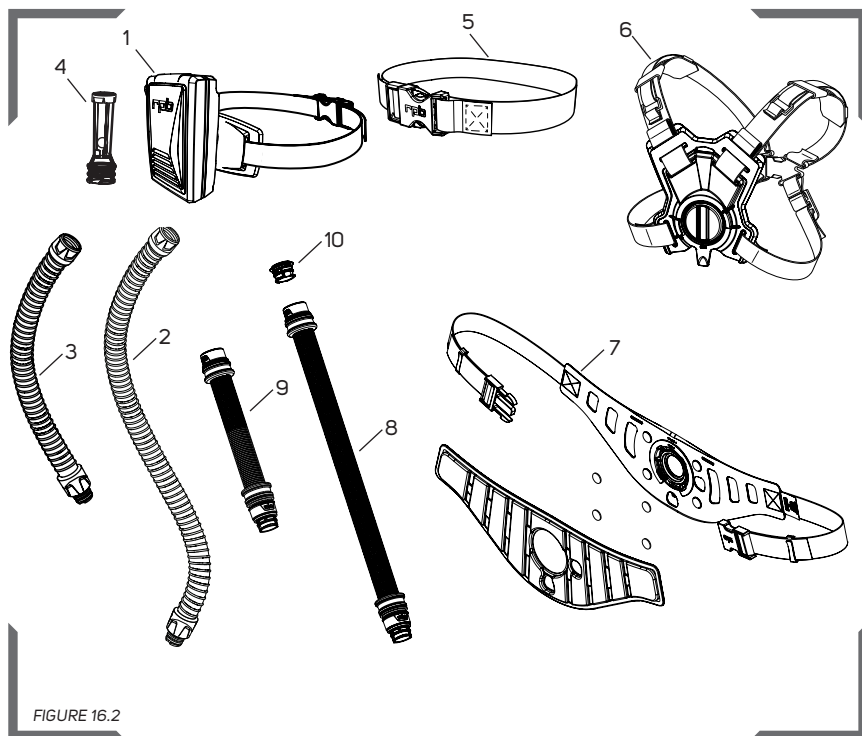


FIGURE 16.2

Item Number	Description	Part Number
1	PX5 PAPR and Belt	03-801
2	PAPR Breathing Tube	04-831
3	Short Breathing Tube for Backpack Assembly	04-841
4	PAPR Flow Meter	03-819
5	2" Belt	07-765
	FR 2" Belt	07-765-FR
6	FR Backpack Assembly	03-822-FR
	Easy Clean Backpack Assembly	03-822-DC
7	Multibelt FR - Fire Retardant	03-825-FR
	Multibelt DC - Easy Clean	03-825-DC
	Multibelt Comfort Pad with hook dots	03-825-CP
	Multibelt FR with Comfort Pad	03-826-FR
8	GVS PAPR Quick Connect Breathing Tube - Long (New)	04-831-S
9	GVS PAPR Quick Connect Breathing Tube - Short (New)	04-841-S
10	GVS Breathing Tube Bayonet Adaptor (New)	221-317

FLOW CONTROL DEVICES

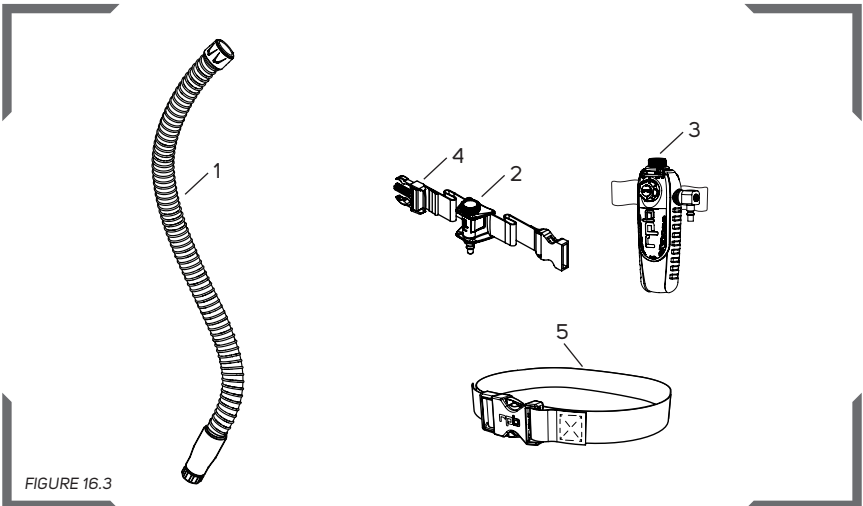
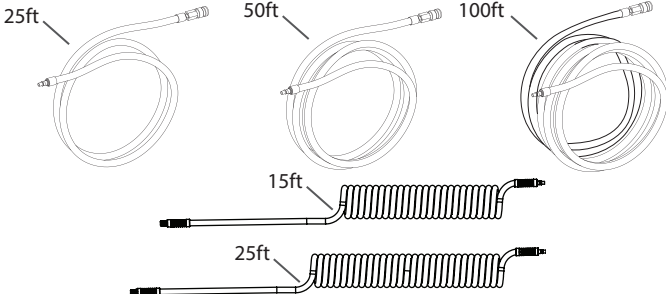


FIGURE 16.3

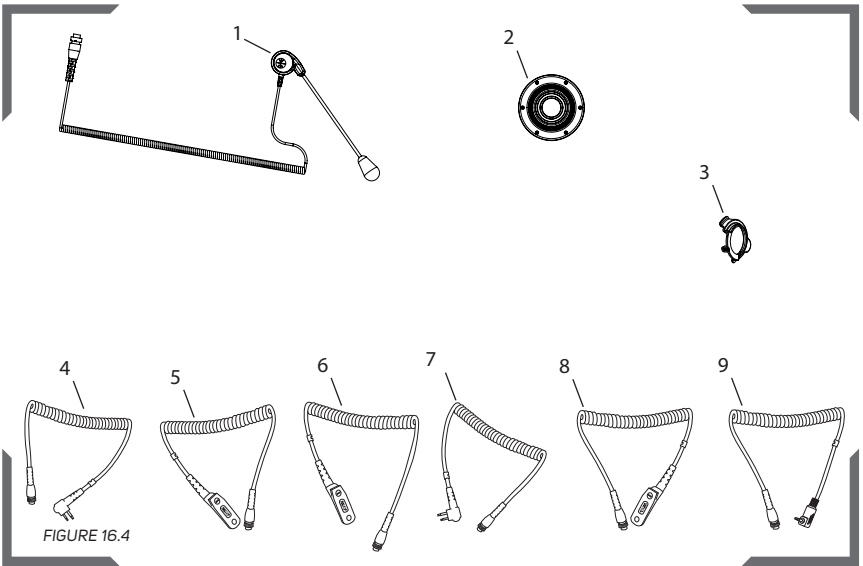
Item Number	Description	Part Number
1	SAR Breathing Tube	04-833
2	Constant Flow Valve Assembly and Belt	03-101
3	C40 Climate Control Assembly and Belt	03-500
4	Belt for Constant Flow Valve	NV2022
5	2" Belt for C40	07-765
	FR 2" Belt for C40	07-765-FR

AIR SUPPLY HOSES AND FITTINGS TABLE 2.1

SERIES	1. COUPLERS	2. PLUGS	3. BREATHING AIR LINE ASSEMBLIES
GVS® 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 GVS 25ft 3/8" NV2029 GVS 50ft 3/8" NV2027 GVS 100ft 3/8" 04-412-15 GVS (15ft) 04-412-25 GVS (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)
GVS 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



COMMS-LINK™ PARTS AND ACCESSORIES



Item Number	Description	Part Number
1	Comms-Link Communication System - w/09-913	16-922
2	PTT	09-913
3	Comms-Link Clip	16-529
4	Two Pin	09-930
5	Multi Pin	09-931
6	Multi Pin	09-932
7	Two Pin	09-933
8	Multi Pin	09-934
9	One Pin	09-935

Other Radio Connectors may be available.



LIMITED WARRANTY

GVS® 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 GVS®, and ALL CONDITIONS AND IMPLIED WARRANTIES (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) ARE EXCLUDED AND DISCLAIMED FROM WARRANTY COVERAGE. GVS'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.

GVS'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 GVS® within the warranty period. GVS® retains the right to determine to its reasonable satisfaction whether any claimed defect is covered by this limited warranty.

If a warranted defect occurs, GVS® 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 GVS's® liability under this limited warranty exceed the original purchase price for the Products (or the applicable component). GVS® 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 GVS® to obtain warranty service. Proof of purchase must be provided to obtain warranty service. All costs of returning the Products to GVS® for warranty service must be paid by the purchaser.

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

LIABILITY

GVS® Safety cannot accept any liability of whatsoever nature arising directly or indirectly from the use or misuse of GVS® Safety products, including purposes that the products are not designed for. GVS® 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 GVS® Safety's negligence or that of its employees, agents or subcontractors.

NOTES



38

NOTES

OTHER PRODUCTS

GVS® QUIET-LINK™ EAR DEFENDERS

The GVS QUIET-LINK ear defender system fits directly to the Z-LINK® and T-LINK® with no modifications. Combine with 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 GVS COMMS-LINK system allows you to communicate without interrupting your work. The in-helmet headset and microphone connect to most professional radios.



GVS® PX5® PAPR

The GVS 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.



MAN-29

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