



TRIDENT[®]
HEXHALE[®]



RTC5 100

**POWERED AIR PURIFYING RESPIRATOR
HELMET WITH FACE SHIELD**

USER INSTRUCTIONS

**Designed to be used with PAPR system*

SAFETY WARNINGS - READ BEFORE USING



WARNING

Read and Understand All Instructions Before Using.



TRIDENT® HEXHALE® powered air purifying face shield has a compact shape and a balanced centre of gravity. Used together with TRIDENT® HEXHALE® PAPR system, the overall filtration efficiency is as high as 99.997%. It is convenient, comfortable and easy to adjust, providing users with comprehensive protection for respiratory, eyes and face, head, and hearing (requires noise-cancelling earmuffs).

DO NOT USE WHERE THERE MAY BE A DEFICIENCY OF OXYGEN.

When using Class AUS and Class 1 filters – DO NOT USE IN HIGHLY TOXIC ATMOSPHERES, REFER TO AS/NZS 1715.

Provides P3 protection only with full facepiece respirator.

Please do not raise the visor during usage, failure to follow this instruction to use this product may seriously affect the user's health.



WARNING



- Use of this product for other operations, such as laser welding/cutting, can result in permanent eye damage and loss of vision.
- This product is not suitable for protection against x-rays, Gamma rays, high energy particulate radiation, lasers and masers.
- Please make sure the protection film is removed before use.
- Inspect the face shield before use to make sure it is fully assembled and functional, to ensure safety.
- Check before use to determine whether this product is suitable for your application.
- Replace the protective visor immediately if pitted, scratched or broken, otherwise it will reduce vision clarity, or reduce impact protection.
- Before using the face shield, ensure that you have read and understood the instructions. The Warranty Terms do not cover problems such as those caused by: unauthorised modifications; using unauthorised spare parts; abuse; failure to follow the instructions; improper maintenance; repairing.
- It will not provide protection against IR.
- There are only original spare parts (See page 8) to be installed. For information about suitable spare parts please contact the dealer or manufacturer.
- The duration of use depends on various factors such as use, cleaning storage and maintenance. Frequent inspections and replacement if it is damaged are recommended.
- Materials which may come into contact with the wearer's skin could cause allergic reactions to susceptible individuals.
- Eye-protectors against high speed particles worn over standard ophthalmic spectacles may transmit impacts, thus creating a hazard to the wearer.

- If protection against high speed particles at extreme temperatures is required then the selected eye-protector should be marked with the letter T immediately after the impact letter, i.e. FT, BT or AT. If the impact letter is not followed by the letter T then the eye protector shall only be used against high speed particles at room temperature.
- If the symbol F, B and A are not common to both the ocular and the frame, then it is the lower level which shall be assigned to the complete eye-protector.
- The optical class 3 oculars are not intended for long term use.
- For a face shield to comply with field of use symbol 8, it should be fitted with a filter of scale number 2-1.2 or 3-1.2 and have a minimum thickness of 1.4mm.
- For an eye-protector to comply with field of use symbol 9, both the frame and ocular shall be marked with this symbol together with one of the symbol F, B and A.
- The user shall contact the health and safety representative to ensure they are given the proper protection by the personal eyewear during working conditions.
- Substitute parts, films not included in instruction manual, or spraying or other modifications to face shield will seriously damage the product's protective function and void the warranty or cause the product's use effect to be inconsistent with protection level and certification.
- Failure to strictly follow all instructions for use and/or to wear product incorrectly throughout exposure can damage wearer's health, resulting in serious or fatal illness, injury, or permanent disability.
- Dispose of waste product parts in accordance with local regulations.

Before / after using RTC5100 face shield, Check the following items:

- If the protective visor is soiled, change the visor.
- Make sure there is sufficient ambient light.
- Replace worn or damaged parts immediately.
- Do not use parts other than those produced by TRIDENT®.
- Headgear must be adjusted to fit properly before use.
- Make sure the face seal is securely and properly attached.
- Make sure the breathing tube is securely assembled.
- The face shield should be stored in dry, cool area when not using it for long time.



WARNING



Severe personal injury could occur if the user fails to follow the above mentioned warnings, and/or fails to follow the operating instructions.

COMMON PROBLEMS AND REMEDIES

- **Poor vision**
 1. Protective visor is soiled (change visor).
 2. Where there is insufficient ambient light.
 3. Check if removing the film on the visor.



WARNING



The user must stop using the face shield immediately if the above mentioned problems cannot be corrected. Contact the distributor.

INSTRUCTIONS FOR USE

WARNING! Before using the face shield, ensure that you have read and understood the safety instructions.

• ADJUST HEADGEAR

Step 1: Put the face shield on and adjust the face seal, make sure the face seal is fully sealed around the face (See fig.1a).

Step 2: Adjust the back headgear knob until the face shield is fixed on the head properly (See fig.1b).

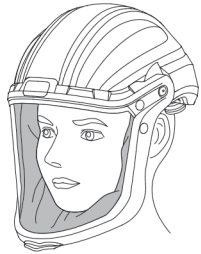


fig.1a

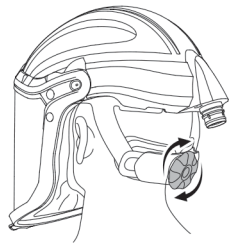


fig.1b

• FACE SHIELD HEIGHT ADJUSTMENT

If you feel uncomfortable or unbalanced when wearing face shield, adjust the front and rear attachment positions of the suspension headband to an appropriate position (See fig.2). The suspension headband can be adjusted at four locations: two in the rear and two in the front.

Each location can be adjusted independently for a custom fit.

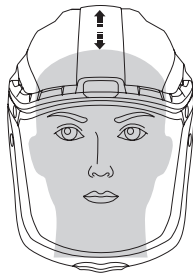


fig.2

Remove the headgear assembly (See fig.3a).

To change the position of the front headband, pull the attachment buckle out of the slot and rotate the buckle 90° clockwise to detach it from the peg. Re-position the peg to another slot on the "ladder" of the buckle, then follow the reverse steps to reinstall the buckle into place (See fig.3b).

To change the position of the rear headband, pull the height adjustment slot off the peg and re-position it to another slot on the "ladder" (See fig.3b).

Put the face shield on to check if it fits comfortably. Repeat the aforementioned steps if necessary.

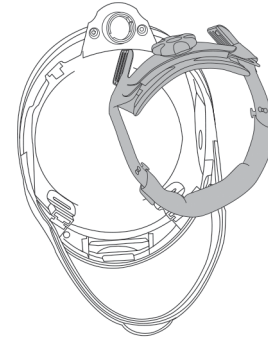


fig.3a

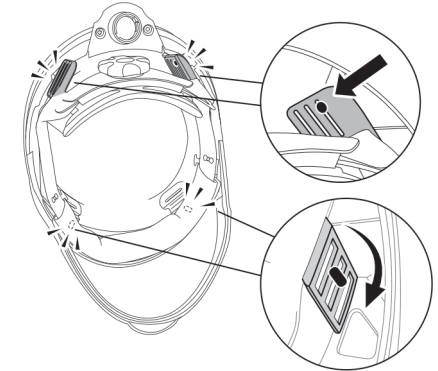


fig.3b

• AIR FLOW DIRECTION ADJUSTMENT

Toggle forehead air flow direction adjustment plate to adjust direction of the airflow in face shield to ensure comfortable wearing (2 gears adjustable) (See fig.4).

• CONNECT HOSE TO HELMET

Pull the head of hose to connect it to protruding connector of RTC5100 helmet, and then release the head of hose to complete the fixing (See fig.5).

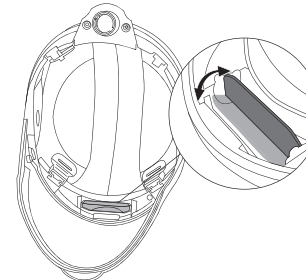


fig.4

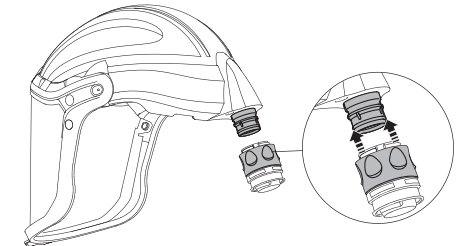


fig.5

MAINTENANCE

• REPLACING PROTECTIVE VISOR

To remove visor: Pull up the latches and remove buckles from both sides (See fig.6a / 6b), keep the parts appropriately. Push the central of visor top edge from internal side, until you hear a "click" to get out the visor (See fig.7a / 7b).

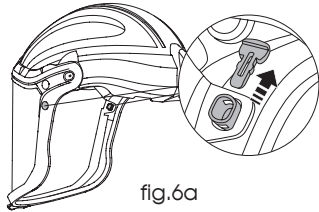


fig.6a

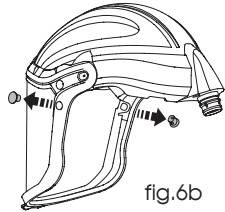


fig.6b

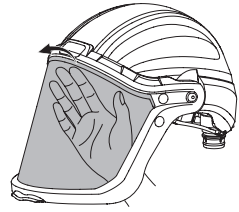


fig.7a

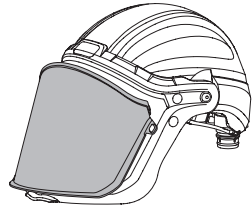


fig.7b

To install visor: Put the one side of the visor into the slot (See fig.8a) and then put the other side of the visor into the slot (See fig.8b / 8c). Press the center of the top edge of the visor inward from the outer side until you hear a "click" sound to fix the visor (See fig.8d). Place the buckles in the position shown and slide down the latches firmly until you hear a "click" sound (See fig.8e).

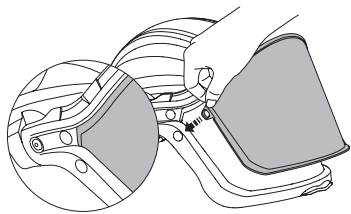


fig.8a

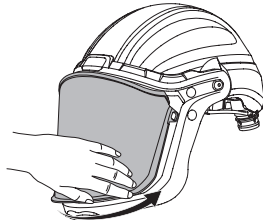


fig.8b

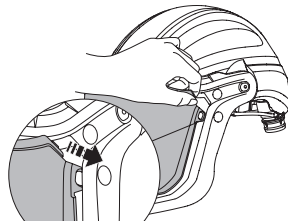


fig.8c

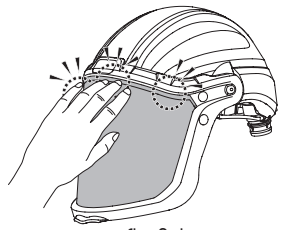


fig.8d

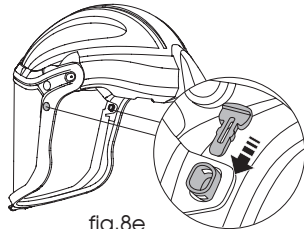


fig.8e

• REPLACING FACE SEAL

Fix the edge groove of the face seal to the edge of the outside frame of the face shield (See fig.9a), and press to the arrow direction to complete the installation (See fig.9b), and hang the inner and outer elastic bands on both sides to the "T" hook to fix (See fig.9c).

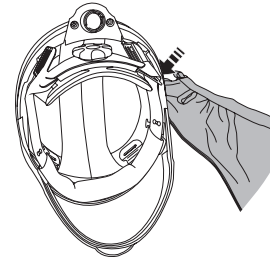


fig.9a

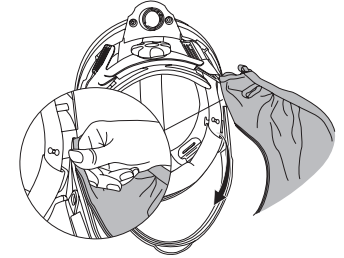


fig.9b

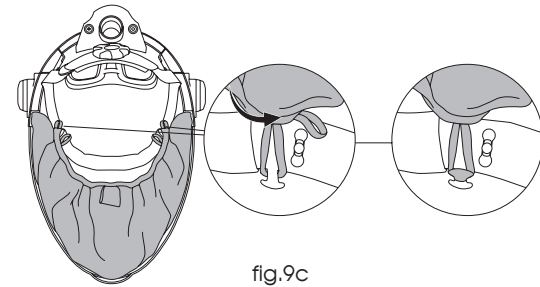


fig.9c

• FORHEAD SEAL AND BACK PAD REPLACEMENT

Remove headgear from face shield (See fig.10a / 10b). Replace forehead seal and back pad with new one, and then put complete headgear back into face shield (See fig.10c).

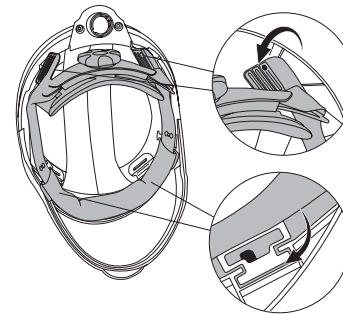


fig.10a

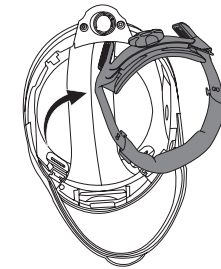


fig.10b

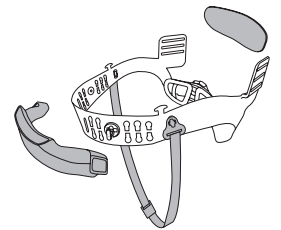


fig.10c

Remove soft band from headgear and replace with a new webbing (See fig.11). Rotate buckles on both sides of headgear, remove old chin strap, and after installing new chin strap, rotate buckles to complete the fixing (See fig.12).

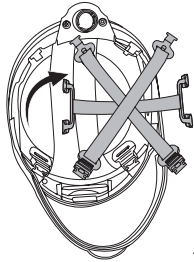


fig.11

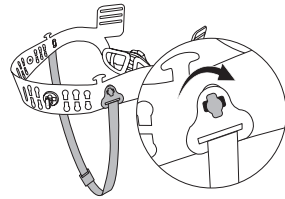


fig.12

• **REPLACING VISOR FRAME ASSEMBLY**

Push out the bottom from inside of the visor (See fig.13a), disassemble two buttons from both sides (See fig 13b, remove the visor frame assembly and replace the new one (See fig 13c).

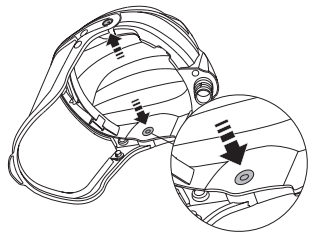


fig.13a

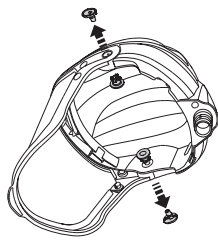


fig.13b

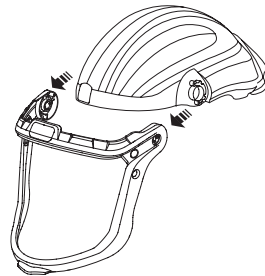


fig.13c

• **CLEANING AND DISINFECTION**

Clean the face shield by wiping with a soft cloth. Clean the visor surfaces regularly. Do not use strong cleaning solutions. Clean it with methylated spirit and clean cloth and wipe dry with a lint-free cloth.

TECHNICAL SPECIFICATIONS

Face Shield Model No.:	RTC5100
Viewing Area:	426cm ² (66sq. in)
Operating Temp.:	-10°C ~ 50°C (14°F ~ 122°F)
Storing Temp.:	-30°C ~ 50°C (-22°F ~ 122°F)
Application Industry:	Painting / Metal Processing / Other applications with hot particles

CERTIFICATION AND COMPLIANCE

Certification:



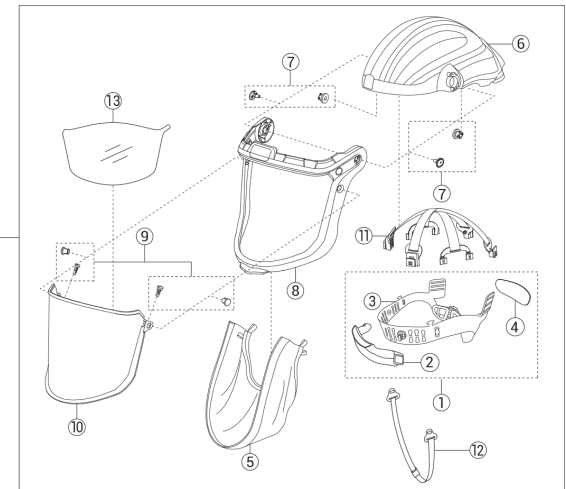
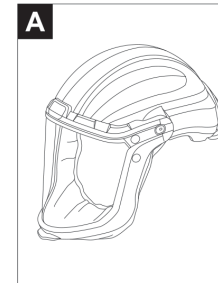
AS/NZS 1716:2012
LIC. SMK41528

When used in conjunction with a TRIDENT® HEXHALE® complete blower system RTC5200 and the selected certified filter, AS/NZS 1716:2012 is achieved.

Compliance:

AS/NZS 1337.1:2010
AS/NZS 1801:1997+Amdt 1-1999

PARTS LIST & ASSEMBLY



ITEM	PART NO.	DESCRIPTION
A-1	RTC5101	Headgear
A-2	RTC5102	Forehead Seal
A-3	RTC5103	Head Suspension
A-4	RTC5104	Comfort Back Pad
A-5	RTC5105	Standard Face Seal
A-6	RTC5106	Headtop
A-7	RTC5107	Headtop Buttons
A-8	RTC5108	Visor Frame Assembly
A-9	RTC5109	Visor Frame Buttons
A-10	RTC5110	Protective Visor
A-11	RTC5111	Ribbon
A-12	RTC5112	Chin Strap
A-13	RTC5113	Disposable protective film for the visor



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