



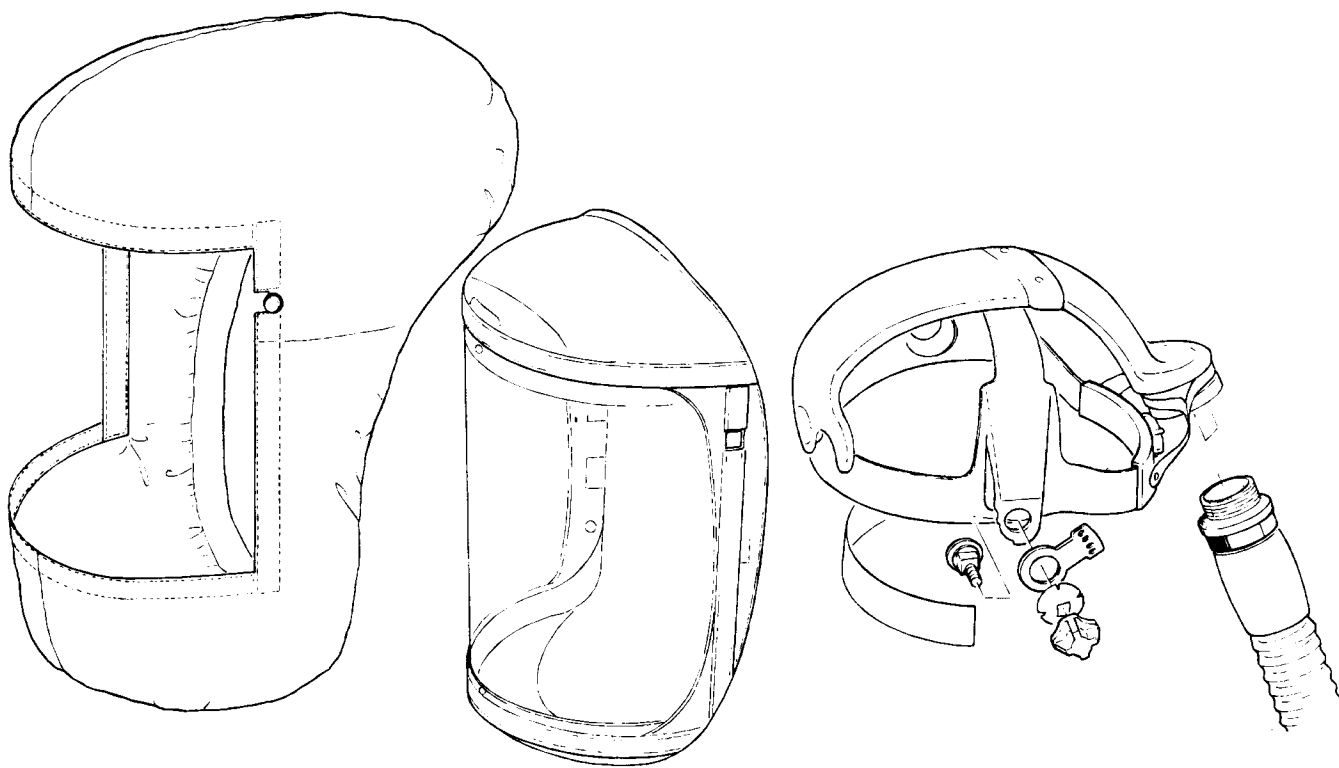
TORNADO T3

Respiratory Protective Systems



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T3/AC, T3/PC and T3/SH



WARNINGS

-  **TORNADO users must be familiar with workplace hazards and fully trained in the use of the apparatus prior to using the equipment.**
-  **Read this leaflet and the T/A/LINE or TOR/FILTER and T/POWER leaflets, as appropriate, prior to using the equipment.**
-  **TORNADO head tops must be used with a T/POWER blower or T/A/LINE. T/POWER must be fitted with filters selected from the TORNADO range of filters and appropriate to the workplace hazard.**
-  **TORNADO filters, which conform to prEN 12491, can be obtained from Protector distributors. Using another manufacturer's product may reduce the level of protection and invalidate approvals. Protector can advise on the suitability of filter types.**
-  **DO NOT use T3 in confined spaces, oxygen deficient atmospheres (<19% oxygen), oxygen enriched atmospheres (>23%) or where there is an immediate hazard to life or health.**
-  **DO NOT use if the headtop or air hose is damaged.**
-  **Protection will only be obtained if unit is fitted correctly.**
-  **Protection level may be reduced if wind speed exceeds 2 metres per second.**
-  **Filters must not be fitted directly to the helmet or hood.**
-  **In the unlikely event of T/POWER or T/A/LINE failing while in a hazardous atmosphere, there may be a depletion of oxygen within the headtop. DO NOT remove the headtop. GO IMMEDIATELY to a safe area then remove the headtop.**

SPECIFICATION

HEADTOP TYPE		T3
Description		Browguard High Heat faceseal
Classification when used with:	T/POWER T/A/LINE	prEN 12941 TH2 prEN1835 LDH3 EN 166 Grade B/F
Visor		
Minimum design flow rate		140 L/min
Nominal (Assigned) protection factor*		
when used with:	T/POWER T/A/LINE	50(20) 200(40)
Operating temperature		-10°C to 50°C

**Assigned protection factor is in accordance with BS 4275 : 1997*

WEARING

Examine the visor for damage or wear which may impair visibility or respiratory protection, e.g deep scratches, abrasion. Check that there are no gaps between the visor and the visor holder. Damaged visors which have come into contact with solvents, or which have received a significant

impact should be replaced. Check that the faceseal is fully attached to the visor holder and the elastic faceseal is not damaged or perished.

Use the handwheel at the back of the headtop to loosen the head harness and don the headtop. Use the pull tag to pull the faceseal under the chin.

Pull the headtop back so that it fits comfortably and securely under the chin and around the cheeks and the faceseal around the head, above the ears and below the ratchet. Arrange the breathing hose so that it trails freely down the back and is not kinked, looped, or likely to snag. Refer to the *T/POWER*, or *T/A/LINE* leaflet for further user information.

Tighten the handwheel till the head harness fits comfortably over the forehead. It may be necessary to adjust the crown strap to position the visor to the correct height for the face. The handwheel may require adjustment if the crown strap is adjusted.

DO NOT remove headtop until safely clear of the hazardous area. Observe any site decontamination procedures.

AFTER USE

Unscrew the air hose and use a synthetic sponge, moistened a warm soap and water solution to clean the headtop. **TriGene** wipes may be used to disinfect the headtop. DO NOT use solvent, detergent or abrasive cleaners. Care should be taken not to scratch the visor. If the headtop or visor is damaged in any way they should be replaced.

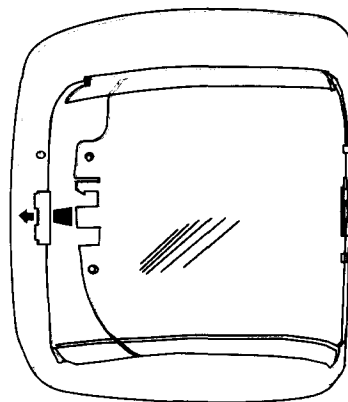
SPARES

DESCRIPTION	T/3/AC Part No.	T/3/PC Part No.	T/3/SH Part No.
Polycarbonate Faceshield (Grade B)	TOR3/VISOR/P		
Acetate Faceshield (Grade F)	TOR3/VISOR/A		
Thermoguard Faceshield (Grade F)	TOR3/VISOR/T		
Ratchet and headharness	WXHG51	WXHG51	WXHG51
Complete hose assembly	T2/HOSE	T2/HOSE	T2/HOSE
Faceseal (pack of 5)	T/3/HOOD	T/3/HOOD	T/3/HOOD
Exhalation Valves (pack of 2)	TOR/VALVE	TOR/VALVE	TOR/VALVE

FITTING SPARES

To replace the visor:

1. Working from the rear of the faceshield and use the finger tips to lever the back edge of the visor away from the lugs.
2. Push the visor forward out of its holder.
3. To fit a new visor, follow the reverse of the above procedure to snap the visor over the fixing lugs.
4. Check that the visor presses firmly against the holder.



To replace the head harness assembly:

1. Unscrew the air hose, free the faceseal from the air hose duct, remove the thumb nuts, washers, pivot plate and screws, then withdraw the head harness from the faceseal.
2. Open the crown strap to free the elastic loops.

3. Pass the crown straps of the new head harness through the elastic loops of the facesal, insert the head harness into the facesal, align the holes in the head harness, visor holder and facesal.
4. Fit screws, thumb nuts, washers and pivot stop.
5. Fit the facesal over the handwheel.
6. Fit the air hose ensuring that the facesal material is trapped between the head harness duct and the hose.

To replace the facesal:

1. Unscrew the hose from the air duct and remove the thumb nuts washers and pivot stop.
2. Pull the old facesal off the visor holder and handwheel, and release the elastic loops from the crown straps.
3. Align the new facesal pull tab with the bottom centre of the visor holder and attach evenly to the Velcro all the way around.
4. Ensure that the seal passes under the side washers and is located under the handwheel. Hook the elastic loops over the crown straps.
5. Screw the hose back into the duct ensuring that the fabric is trapped between the hose and duct.
6. Tighten the thumb nuts to trap the facesal under the washers.

To fit a new hose simply unscrew the old one from the duct and screw in the new one ensuring that the fabric is trapped between the hose end and the duct.

To replace the exhalation valve pull the old valve carefully from the facesal and press the new exhale valve into the facesal. Ensure that the facesal fits completely around the valve.

EN166 VISOR HOLDER AND VISOR MARKINGS:

The markings on the frame and visor conform to EN166 : 1996.

WARNING: There are two possible levels of impact protection that may apply to visors and visor frames: medium energy items are marked B, low energy items are marked F. When a frame protection level differs from that of the visor, the lower level shall apply to both.

Markings are:

Frame: PSP EN166 96 B CE
Visor: x PSP 18B or 1F

The significance of the following codes (from the standards) is listed below:

PSP	Manufacturer
EN166 96	European standard
x	Shade number
1	Optical class
4	Resistance to liquid splashes (5 Resistance to large dust particles, 8 Resistance to molten metals and hot solids)
B	Medium energy impact
F	Low energy impact
CE	Mark for intermediate design/category II (For eye protection)
0194	Certifying body.

If the symbols are not common to both the visor and the visor holder then the complete assembly has the lower level of protection.

CAUTIONS

Whilst all the materials which may come into contact with the wearer's skin are not known to be likely to cause skin irritation or any other adverse effect to health, they may cause allergic reactions in particularly susceptible individuals.

It is difficult to predict the life of visors in use. In every day use, and particularly when used outdoors, we would recommend that visors are discarded after two years service. In some extreme instances there may be deterioration over a shorter period of time. For indoor or occasional use we would anticipate a service life of about five years, provided that the visor is stored in cool dry conditions out of direct sunlight.

Notified Body	Inspec Certification Ltd (Number 0194), The Buckland Wharf, Buckland Wharf, Aylesbury, Buckinghamshire, HP22 SLO, United Kingdom
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