

GB

Operating and Maintenance Instructions

WARNINGS



Before using this equipment, read the contents of EN 529 : 2005 and familiarise yourself with the requirements for respiratory protective devices and their potential effects on the wearer.



TORNADO system users must be familiar with workplace hazards prior to using the equipment and must be fully trained in the use of the apparatus.



TORNADO head-tops must be used with a T/POWER blower or T/A/LINE. Read this Manual and the T/A/LINE or T/POWER and T/FILTER User Manuals, prior to using the equipment.



T/POWER must be fitted with filters selected from the TORNADO range of filters which are appropriate for the workplace hazard.



This product must only be used with Protector-branded filters manufactured by Scott Health and Safety Limited. The use of any other filters will negate the approval and will be likely to reduce the level of protection provided.



DO NOT confuse the EN 12941 and EN 12942 TORNADO filter markings with filter markings relating to other EN standards.



DO NOT use T9 in confined spaces, oxygen deficient atmospheres (<19.5%), oxygen enriched atmospheres (>23%) or where there is an immediate hazard to life or health.



DO NOT use if the ambient temperature is outside of the range -10°C to +50°C. Humidity levels up to 95% RH do not present any operational problems.



DO NOT use if the apparatus is damaged. The head-top and air hose must be inspected on every occasion before use to ensure that no damage of any kind is evident, (e.g. chemical damage, splits or broken stitching), which could cause leakage or reduced levels of protection. A monthly inspection of the apparatus is a mandatory requirement in the UK under COSHH regulations and inspection on a monthly basis is strongly recommended for all other countries.



Protection will only be obtained if the unit is fitted correctly.



Protection levels may be reduced if wind speed exceeds 2 metres per second.



In the unlikely event that T/POWER or the T/A/LINE air supply fails while in a hazardous area, a depletion of oxygen and increase in carbon dioxide will occur within the hood. THE HELMET/HOOD MUST BE REMOVED AS SOON AS POSSIBLE TO AVOID DANGER OF SUFFOCATION. LEAVE THE AREA IMMEDIATELY.



TORNADO head-tops can be used in certain explosive and flammable atmospheres when used with T/POWER which is marked as intrinsically safe. It is the employer's responsibility to ensure that the intrinsic safety approval is compatible with the particular environment.



At very high work-rates, pressure in the device may become negative at peak inhalation flow.



Filters must not be fitted directly to the helmet/hood.

TORNADO T9

SPECIFICATION

Description:		Full Hood
Classification when used with:	T/POWER T/A/LINE	EN 12941 TH3 EN 1835 LDH3
Minimum Design Flow Rate:		140 L/min
Assigned* (Nominal) Protection Factor when used with:	T/POWER T/A/LINE	40 (500) 40 (200)
Operating Temperature Limits:		-10°C to +50°C
Material:		PVC
Weight:		1000 Grams

* According to EN 529 : 2005

MARKINGS AND MEANINGS

The **T9** head-top markings are in conformance with EN 12941, as follows:

Marking	Meaning
SCOTT	Manufacturer - Scott Health & Safety
T9	Product name
CE	CE mark
0086	Certifying body
EN12941	Standard - powered respirator
EN1835	Standard - air supplied
TH3	Class designation - EN 12941
LDH3	Class designation - EN 1835

WEARING

CAUTION:

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

1. Loosen the draw-string at the neck of the inner skirt and check that each white plastic tape passes through one of the holes in rear of the outer skirt, then through the loop at the end of each the tape.

2. Insert head into the head-piece with the air hose positioned at the back of the head so that it trails freely down the back and is not kinked.

3. Hold the draw-string rubber toggle and pull both ends of the draw-string to give a snug, comfortable fit around the neck.

4. Arrange the head-piece inner skirt under your outer clothing (e.g.: overall, jacket or sweater) with the outer skirt over your outer clothing. Pass the free ends of the white plastic tape through the holes at the front of the outer head-piece and tie in a bow across your chest. Do not over-tighten the bow.

5. Please refer to the **T/POWER** or **T/A/LINE** User Manual for further information.

AFTER USE

WARNING:

- **DO NOT** remove the face-piece until **safely clear** of the hazardous area.
- In applications where this equipment is exposed to or in contact with a hazardous material, national or local regulations specific to that material must be followed when **decontaminating the equipment before cleaning and maintaining it.**

1. Taking care not to scratch or crease the transparent areas of the head-piece, sponge the inner and outer surfaces of the head-piece. Disinfect with **TriGene™** solution if required.

CAUTION:

- **DO NOT** use solvent or detergent cleaners as they may cause damage.
- **DO NOT** allow water to enter the breathing hose.

2. Check the head-piece, exhale valve, draw-string and straps for wear and damage. If the head-piece is torn or it is difficult to see through the transparent areas, the head-piece must be discarded.
3. Ensure that the head-piece is thoroughly dry prior to storing.
4. Hang the head-piece by its top loop, off the floor, so that it is not creased or scratched.

STORAGE

When not in use, the equipment should be stored in a clean, dry environment, away from direct heat sources between +10°C and +30°C, at a humidity of less than 65% RH.

MAINTENANCE

Carry out a thorough inspection of all component parts before and after each occasion of use, paying particular attention to the exhale valve flap. The valve flap must be replaced annually regardless of condition. Valve flaps in storage have a shelf-life of five years, after which time they should be discarded.

Exhalation valve flaps are marked with a code indicating the year of manufacture. The code '07' corresponds to 2007 and a dot is added each year thereafter, so '07.' would equate to 2008.

RECORD INSPECTION AND MAINTENANCE DETAILS

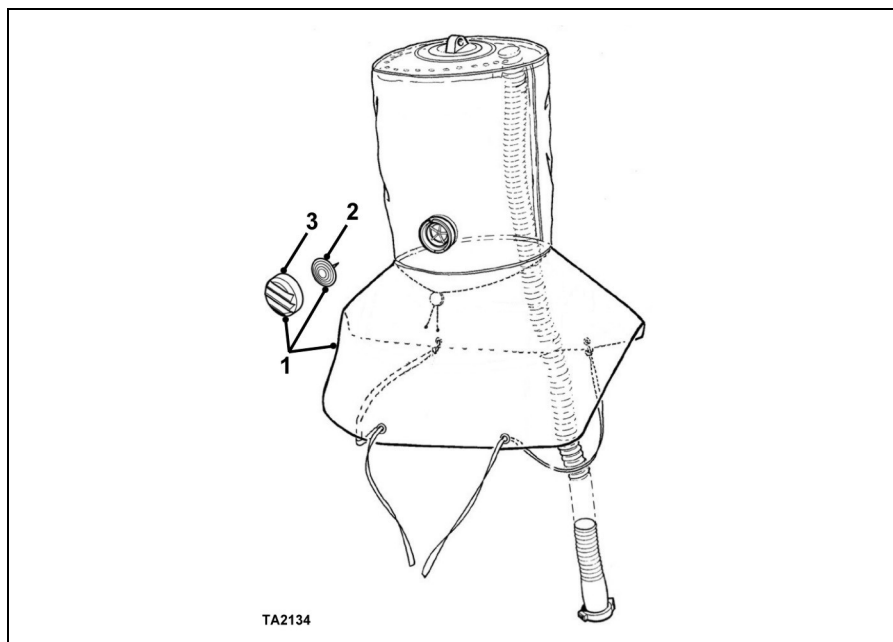
Record test and maintenance details on the Inspection and Maintenance Record Sheet provided at the back of this Manual.

Information recorded usually includes:

- Name of employer responsible for the apparatus.
- Make, model number or identification mark of the apparatus, together with a description of any distinguishing features, sufficient to enable clear identification.
- Date of the inspection/maintenance together with the name, signature or unique authentication mark of the examiner.
- Condition of the apparatus, details of any defects found and any remedial action taken.

TORNADO T9

SPARE PARTS



Item No.	Description	Part No.
1	Complete Hood & Hose Assembly	T9
2	Exhale Valve Flap (Pack of 2)	TOR/VALVE
3	Exhale Valve Cover (Pack of 5)	2017146

FITTING SPARES

To Replace the Exhale Valve:

1. Pull the valve cover from the valve and pull the exhale valve flap from its housing.
2. Fit the replacement valve and check that the valve flap lies flat on the frame. Align the valve cover with the slots in the valve and snap it onto the valve.

WARRANTY

The products manufactured at our factories in Skelmersdale and Vaasa carry a warranty of 12 months (unless stated otherwise) for parts, labour and return to site. The warranty period runs from the date of purchase by the end user.

These products are warranted to be free from defects in materials and workmanship at the time of delivery. **SCOTT** will be under no liability for any defect arising from wilful damage, negligence, abnormal working conditions, failure to follow the original manufacturer's instructions, misuse or unauthorised alteration or repair.

Evidence of purchase date will need to be provided for any claims arising during the warranty period. All warranty claims must be directed through **SCOTT Customer Services** and in accordance with our sales return procedure.

NOTIFIED BODIES

Inspec International Limited (0194)
56 Leslie Hough Way,
Salford,
Greater Manchester,
M6 6AJ,
England.

BSI Product Services (0086)
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Hemel Hempstead,
HP2 4SQ,
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