

# Addendum to 3M™ Speedglas™ Auto-Darkening Welding Helmets User Instructions

## Alternate Hard Hats for 3M™ Speedglas™ Welding Helmets

### ⚠ WARNING

- This is an addendum to the *User Instructions* for the Speedglas™ Auto-Darkening Welding Helmets. Always read and follow the User Instructions provided with each individual component of any welding helmet or hard hat assembly. User Instructions include important warnings and use limitations. **Failure to do so may result in sickness or death.**
- Do not use any welding product without appropriate training. For proper use, see supervisor or *User Instructions* or call 3M in U.S.A. 1-800-243-4630. In Canada, call 1-800-267-4414. **Failure to do so may result in sickness or death.**
- Always wear ANSI Z87.1-2003 compliant safety spectacles in addition to any welding helmet. **Failure to do so may result in permanent eye injury and vision loss.** In Canada, follow CSA Z94.3 and/or the requirements of the authority having jurisdiction in your region.

### Introduction

Two ANSI standards cover performance requirements for welding shields combined with hard hats: Z87.1-2003 Eye and Face Protection Devices and Z89.1-2003 Industrial Head Protection. Both standards require welding helmets and hard hats to be tested as a complete assembly, as they would be worn by a welder. Assembling a welding hard hat using components from different manufacturers or brands voids ANSI compliance unless tests verify that the assemblies remain compliant with the ANSI requirements.

These *User Instructions* cover Speedglas™ welding helmet models listed in Table 2, mounted to certain hard hats that have been independently tested for compliance with the above referenced ANSI standards. In all cases, a "**Speedy Mounting Loop**" Model 5000 manufactured by Fibre-Metal® (or Speedy-Loop) was used as the mounting device. **IMPORTANT:** To maintain ANSI compliance, use only the exact components listed in these *User Instructions*.



### Specifications

- Eye and Face Impact: ANSI Z87.1-2003 high impact protector (Z87+)
- Head Impact: ANSI Z89.1-2003, Type I (top impact). Refer to hard hat literature for electrical rating.

### Assembly

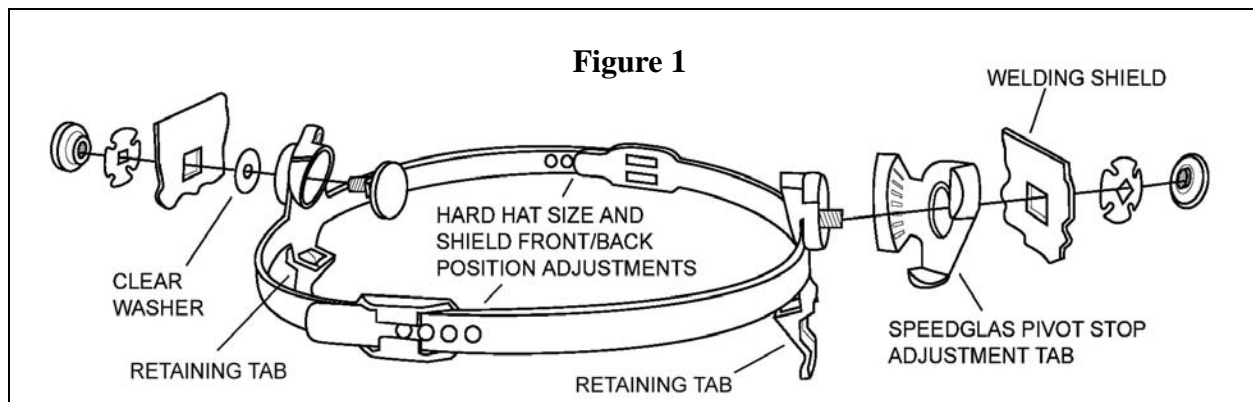
The configurations that were tested and passed the above referenced ANSI impact test requirements are summarized below. These User Instructions do not cover Speedglas™ ProTop or other Speedglas™ systems sold complete with hard hats.

Obtain the following from your local welding distributor:

1. Hard hat listed in Table 1 (only the specific models and suspensions listed may be used)
2. Complete Speedglas™ Auto-Darkening Welding Helmet assembly listed in Table 2 (or equivalent components)
3. Fibre-Metal® Model 5000 Speedy Mounting Loop (Speedy-Loop)

Table 1. Hard Hat Options		
Manufacturer	Hard Hat Model	Hard Hat Part No.
3M	Professional	1921 thru 1926
3M	Omega II	1901 thru 1916
MSA	V-Gard® w/Fas-trac Suspension	475358 thru 475365 & 488146
MSA	Thermalgard® w/Fas-trac Suspension	486959 thru 486963, 487677, 800360, 814343
Fibre-Metal®	E2 w/Ratchet Suspension	E2 with 3-RW2 suspension
Bullard®	302RT w/ Sure-Lock Ratchet Suspension	302RT
Bullard®	3000 w/ Sure-Lock Ratchet Suspension	3000
Jackson Safety®	SC6 w/ Ratchet Suspension 391	3001987 thru 3001996

<b>Table 2. Speedglas™ Helmet Options</b>	
<b>Speedglas Helmet Model</b>	<b>Description</b>
04-0012-10X	9000, ADF 9000XF, Shade 10
04-0012-10XSW	9000, SideWindows, ADF
04-0012-11X	9000, ADF 9000XF, Shade 11
04-0012-11XSW	9000, SideWindows, ADF
04-0012-12X	9000, ADF 9000XF, Shade 12
04-0012-12XSW	9000, SideWindows, ADF
04-0012-15	9000 with Auto-Darkening Filter
04-0012-15SW	9000 with SideWindows and
04-0012-21	9000, ADF 9002X
04-0012-21SW	9000, SideWindows, ADF 9002X
04-0012-31	9000, ADF 9002V
04-0012-31SW	9000, SideWindows, ADF 9002V
04-0012-00	9000, No ADF
04-0012-00SW	9000, SideWindows, No ADF



Disassemble the Speedglas suspension by removing the two side pivot adjustment knobs. Keep all pivot hardware provided with the Speedglas welding helmet. Discard the headband. Discard all pivot hardware provided with the Speedy-Loop - use only the Speedglas pivot hardware and Speedglas pivot stop adjustment tab.

Assemble the Speedy-Loop to the Speedglas welding shield as shown in Figure 1. Following the instructions provided with the hard hat, install the hard hat suspension in reverse, so the bill of the hard hat is facing back. Place the Speedy-Loop over the hard hat and hook the retaining tabs over the rim of the hard hat. When adjusted properly, the Speedy-Loop should fit securely on the hard hat and should not slide around. The welding shield and Speedy-Loop assembly should be easy to remove from the hard hat by pulling back on one of the retaining tabs. The pivot-stop adjustment tab should be located on the right side of the assembly. Adjust the pivot stop tab to the desired stop angle as described in the *User Instructions* for the Speedglas™ Auto-Darkening Welding Helmets.

#### **FOR MORE INFORMATION**

##### **In United States, contact:**

Internet: [www.3M.com/Occsafety](http://www.3M.com/Occsafety)  
 Technical Assistance: 1-800-243-4630

##### **For other 3M products:**

1-800-3M-HELPS or 1-651-737-6501

##### **In Canada, contact:**

Internet: [www.3M.com/CA/Occsafety](http://www.3M.com/CA/Occsafety)  
 Technical Assistance: 1-800-267-4414

##### **For other 3M products:**

1-800-364-3577

##### **3M Occupational Health and Environmental Safety Division**

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