



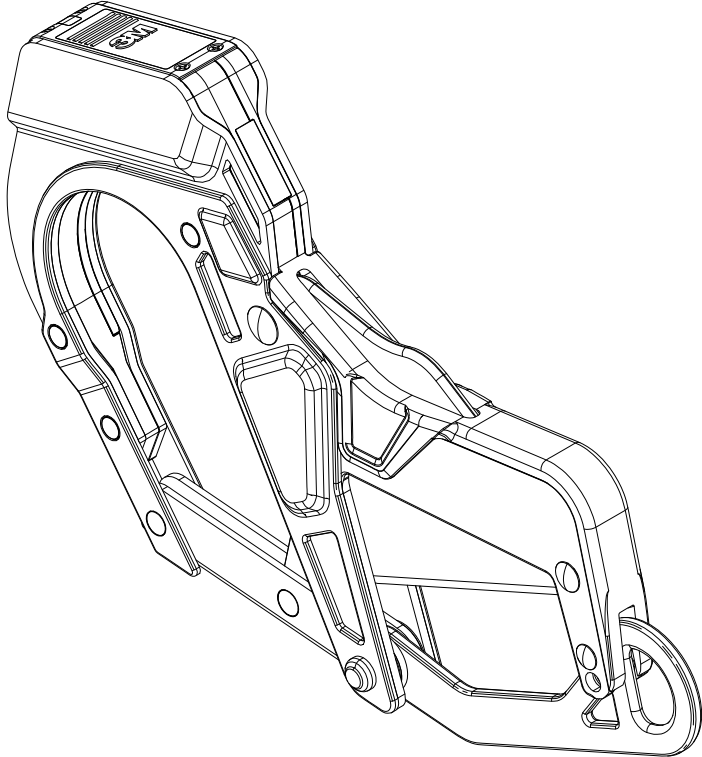
Fall Protection

**Comfort Grip Connected Hook**  
**CONNECTED HOOK**

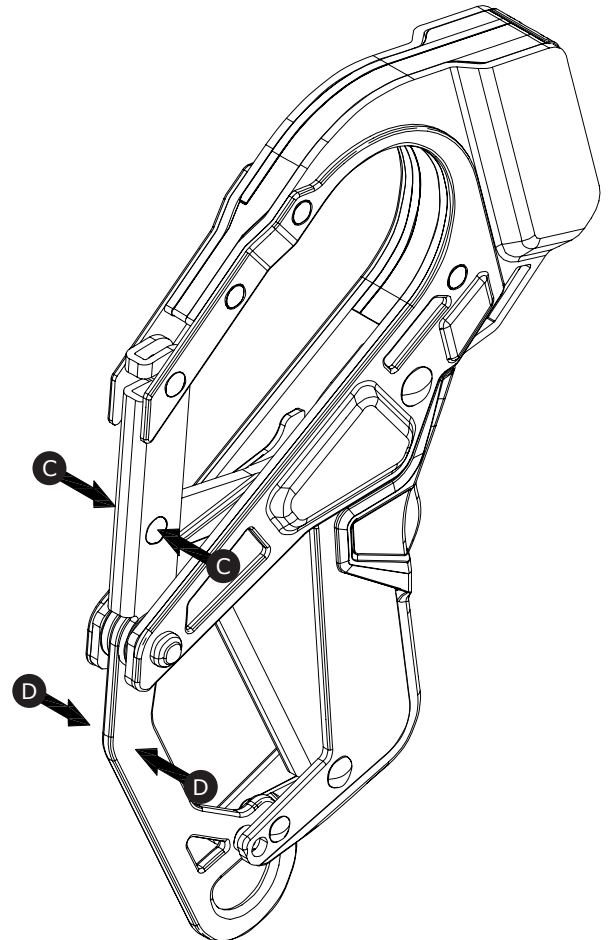
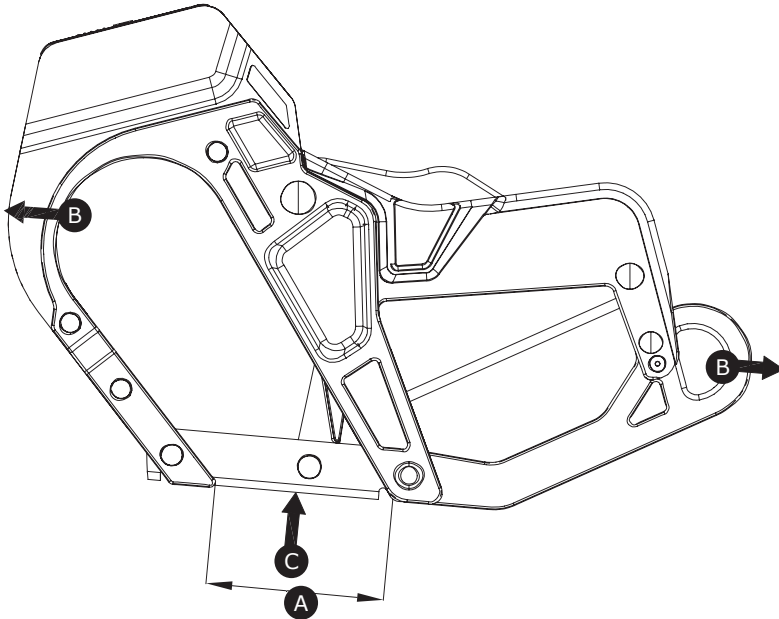
**USER INSTRUCTION MANUAL**  
**5908466 Rev. A**

1

2000217



<b>A</b>	2.25 in (5.72 CM)
<b>B</b>	5,000 lbs (22.2 kN)
<b>C</b>	3,600 lb (16 kN)
<b>D</b>	3,600 (16 kN)



**FCC ID: DGFPSD2000217**

**IC: 458A - PSD2000217**

This device complies with Part 15 of the FCC Rules and Canadian license-exempt RSS 247 standard. Operation is subject to the following two conditions:

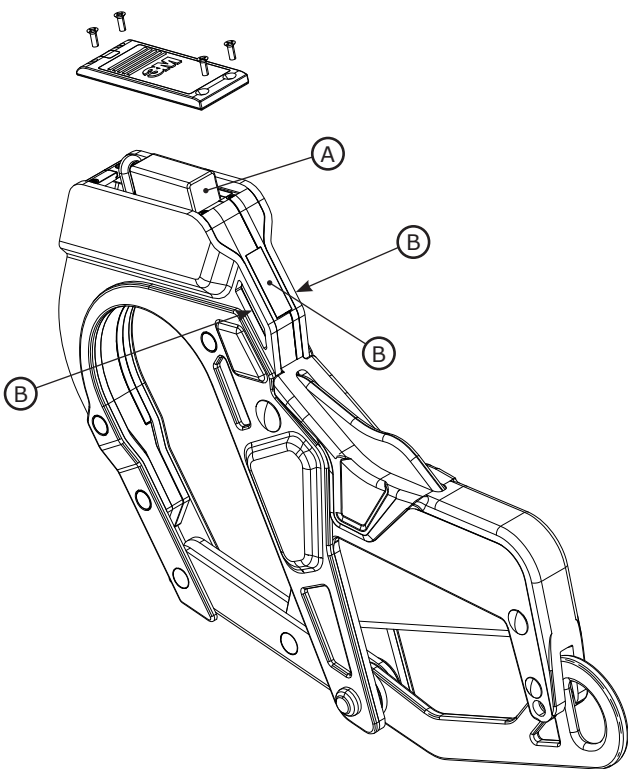
- (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

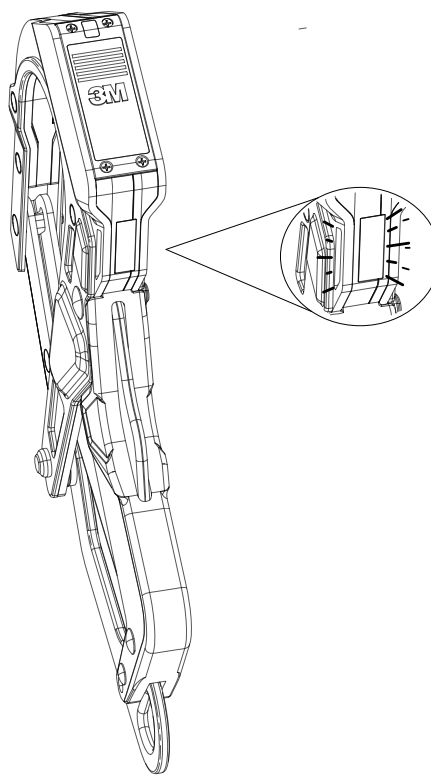
- (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The 3M™ DBI-SALA® Comfort Grip Connected (CGC) Hook is designed to meet the regulatory requirements in those jurisdictions in which it is offered. Changes or modifications not expressly approved by 3M Company could void the user's authority to operate the 3M™ DBI-SALA® Comfort Grip Connected (CGC) Hook.

2

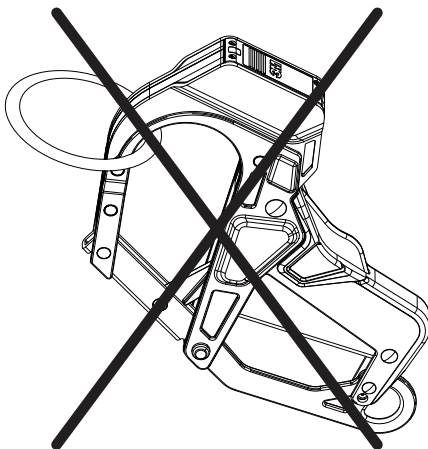


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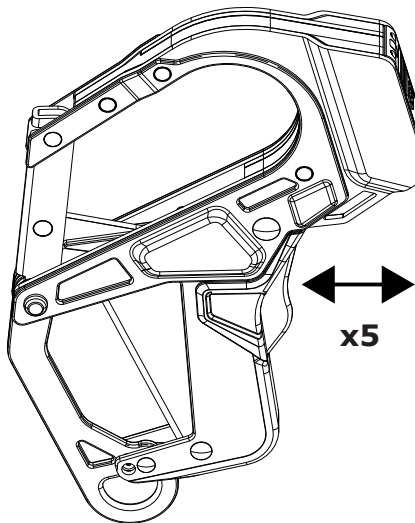


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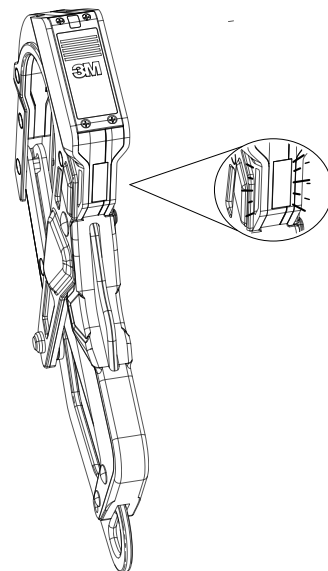
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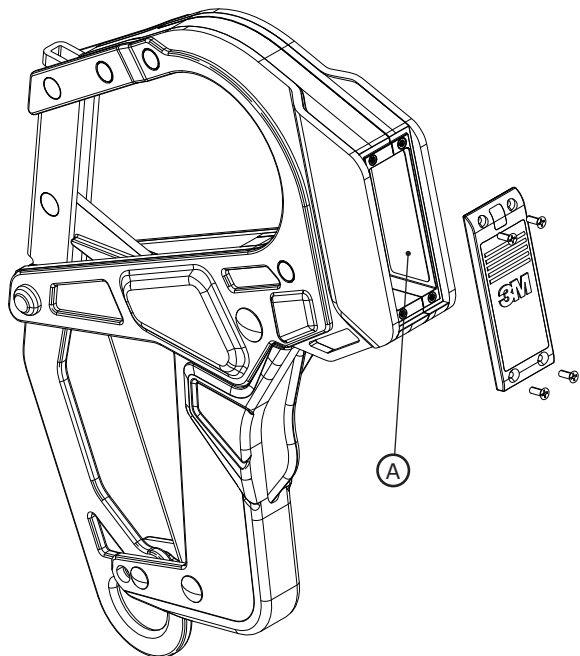
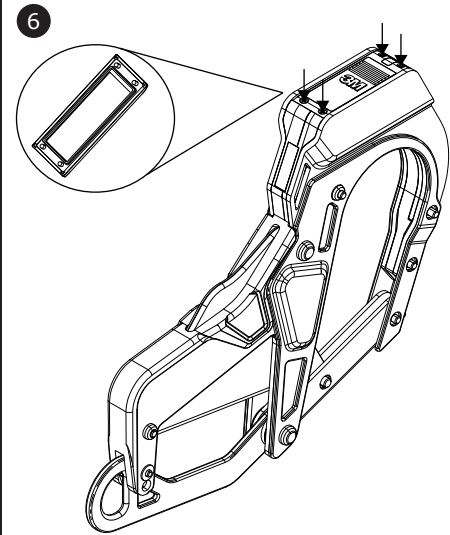
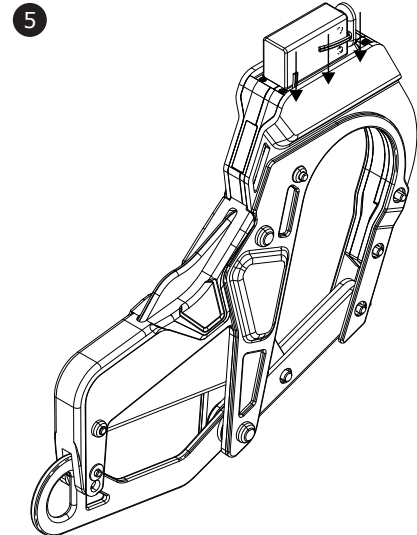
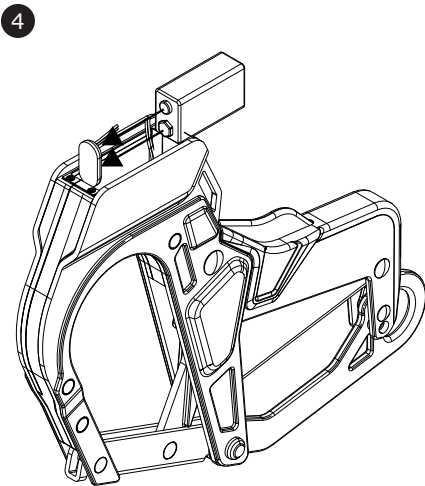
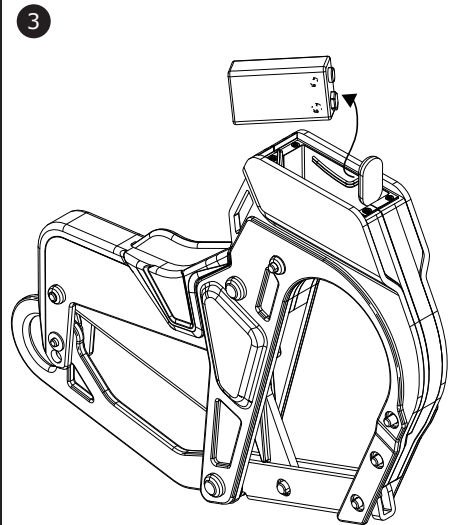
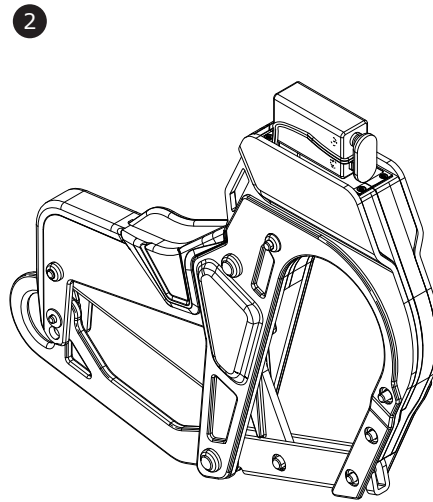
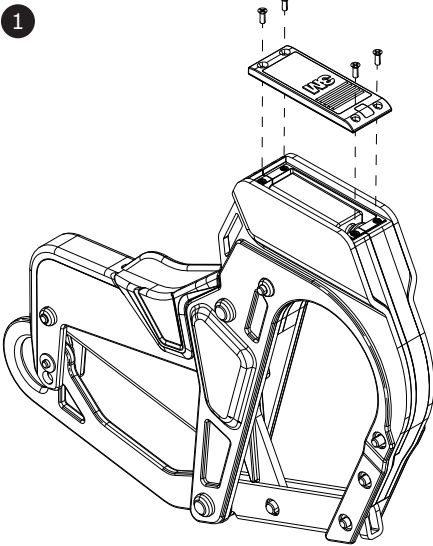


2



3





(A)

FCC ID: DGFPSD2000217  
IC: 458A - PSD2000217  
This device complies with Part 15 of the FCC Rules and Canadian license-exempt RSS 247 standard.  
Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

Before using this equipment, record the product identification information from the ID label in the 'Inspection and Maintenance Log' at the back of this manual.

## DESCRIPTION:

Your Fall Protection Device is equipped with the 3M™ DBI-SALA® Comfort Grip Connected (CGC) Hook (Figure 1). The CGC Hooks incorporate electronic functionality that provides condition and usage status previously not available in traditional hooks. The CGC Hook utilizes software and electronics to provide users and on-site safety professionals with feedback during and after use of the device.

Figure 2 illustrates key components of the CGC Hook. Red and Blue LEDs, powered by an onboard Battery (A), blink visual status of the CGC Hook on a Multi-Directional Display (B). Wireless connectivity enables communication of status and usage data to the 3M Connected Equipment app on a Bluetooth mobile device.

**Table 1 – Specifications**

### Component Specifications:

			See Figure 1			
Hook	Description	Material	A Gate Opening	B Minimum Breaking Strength	C Gate Strength	D Transverse Strength
2000217	CGC Hook	Aluminum Alloy, Alloy Steel	2.25 in (5.72 cm)	5,000 lbs (22.2 kN)	3,600 lbs (16 kN)	3,600 lbs (16 kN)
See Figure 2	Component	Description				
A	Battery	9V; alkaline or non-rechargeable lithium				
B	Multi-Directional Display	LED Indicator Lights				
	Mobile Device	Bluetooth-enabled Android Mobile Device with the 3M Connected Equipment mobile app				

### Performance Specifications:

<b>Operating Temperature</b>	-40° F to 130° F (-40° C to 54° C)
<b>Operating Temperature for Visual Alerts and Bluetooth Connectivity (CGC Hook Operable to -40° F (-40° C))</b>	0° F to 130° F (-29° C to 54° C) (Low Temperature Limit Due to Battery Temperature Specification)
<b>Storage Temperature</b>	-40° F to 130° F (-40° C to 54° C)
<b>Humidity</b>	Relative Humidity 5% to 95% Non-Condensing

## 1.0 Operation

*First time or infrequent users of Comfort Grip Connected (CGC) Hooks should review the "Safety Information" at the beginning of this manual prior to use of the CGC Hook.*

**1.1 On-Board User Interface:** The Comfort Grip Connected (CGC) Hook has a two-color Multi-Directional LED Display to indicate the status of the CGC Hook (see Figure 3). Additional wireless connectivity enables communication of status and usage data to the 3M Connected Equipment app on a Bluetooth mobile device. These electronic functions provide users and on-site safety professionals feedback during and after use of the CGC Hook.

*Feedback provided from the electronics on the CGC Hook is not a substitute for situational awareness and safe work practices. Do not rely on electronic device feedback as a substitute for required safety procedures, product inspection, or monitoring of personnel working at height.*

- **Red LED Blink Patterns:**

Reason	Occurs When...	Blink Pattern
Tie-Off Alert	Only one hook is tied off and its Gate Release is depressed.	Fast Blink for 5 Seconds
Electronic Failure	Electronics have failed the Power-On Self Test. The Sensing and Alert Mechanism may not be working properly.	Long, Slow, Repeating Blinks

- **Blue LED Blink Patterns:**

Reason	Occurs When...	Blink Pattern
Low Battery	Battery level has fallen below the "Replace Now" threshold.	Quick Blink, Repeating Every Three Seconds
Enter Deep Sleep	Hook electronics are going into Deep Sleep Mode (no gate activity sensed on either hook for one hour).	One Quick Blink
Exit Deep Sleep	Hook electronics have come out of Deep Sleep Mode (due to a gate opening).	Two Quick Blinks
BLE Connection	A Bluetooth connection has been established with the companion hook, or a Bluetooth connection has been established with the phone app.	One blink, 1 Second Duration
Calibration	Anchor Sensor baseline calibration is complete. Calibration is initiated by opening and closing the Gate Release five times.	Five Short, Rapid Blinks

- **Red/Blue LED Blink Patterns:**

Reason	Occurs When...	Blink Pattern
Fall Alert	At least one of the hooks has detected a fall.	Red and Blue Continuous Alternating Blink
Cold Start	Battery is connected. Indicates Cold Start and confirms Red and Blue LEDs are functional.	One Quick Blue Blink, followed by One Quick Blink of Both LEDs.

- **Bluetooth Connectivity:** Wireless connectivity enables communication of status and usage data to the 3M Connected Equipment app on a Bluetooth mobile device. For details, contact a 3M Customer Service representative (see back cover). When a Bluetooth connection is established, the Blue LED Indicator Light on the Multi-Directional LED Display will flash once for a one-second duration.

**1.2 Anchor Sensor Calibration:** On rare occasions, the Anchor Sensor of a CGC Hook may lose calibration. If the CGC Hook blinks and shows a Tie-Off Alert whenever the Gate Release is pressed, even when the CGC Hook is not connected to anchorage, the Anchor Sensor may need to be recalibrated. Figure 4 illustrates calibration of the Anchor Sensor. To recalibrate the Anchor Sensor:

1. Ensure that the CGC Hook is not connected to anchorage (no metal anchor inside the bowl of the hook).
2. Press and release the Gate Release five times within two seconds.
3. The CGC Hook's Blue LED will flash quickly several times to confirm calibration has occurred.

## 2.0 Maintenance, Service, and Storage

- 2.1 BATTERY REPLACEMENT:** The CGC Hook is powered by a 9 Volt Battery. Battery life will vary with frequency of use and the environmental conditions in which the CGC Hook is used and stored. Under normal use conditions, the battery should be replaced when the blue LED "low battery" pattern is blinking, as described in Section 2.1, "Blue LED Blink Patterns". Replace discharged batteries promptly. Replace the battery with a 9V alkaline or 9V non-rechargeable lithium battery. Use of any other type of battery may present risk of fire or explosion.

**Lithium Battery Usage:** *If a Lithium Battery is used in this device, it may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 130° F (54° C), or incinerate.*

Figure 5 illustrates replacement of the battery. To replace the battery:

1. Remove the four screws securing the Battery Cover and remove the Battery Cover. Save the screws for reuse.
2. Pull the Battery and Battery Connector Wire out of the enclosure, taking care not to damage or pinch the Battery Connector Wires.
3. Disconnect the Battery from the Battery Connector. Dispose of the Battery properly. Keep away from children. Do not disassemble the Battery or burn in a fire for disposal.
4. Connect the Battery Connector, observing proper polarity of the battery and connector.
5. Insert the Battery into the enclosure. Take care not to damage or pinch the Battery Connector Wires. When fully inserted, the Battery should sit below the surface of the enclosure to allow for proper installation of the Battery Cover. If the Battery is not positioned properly in the enclosure, reinsert the Battery, ensuring the Battery Connector Wires are not obstructing proper insertion of the Battery.
6. Inspect the Battery Cover to ensure the Gasket (A) is present on the inside of the cover and is in good condition. Reinstall the Battery Cover and secure with the four screws. Do not overtighten the screws.

- 2.2 SERVICE:** Additional maintenance and servicing procedures must be completed by an authorized service center. Do not attempt to disassemble the CGC Hook or lubricate any parts.

## 3.0 Labels and Markings

Figure 6 illustrates labels and markings on the the Comfort Grip Connected Hooks and their locations. All labels must be present on the CGC Hook. Labels must be replaced if they are not fully legible.





## U.S. PRODUCT WARRANTY, LIMITED REMEDY AND LIMITATION OF LIABILITY

**WARRANTY:** THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Unless otherwise provided by applicable law, 3M fall protection products are warranted against factory defects in workmanship and materials for a period of one year from the date of installation or first use by the original owner.

**LIMITED REMEDY:** Upon written notice to 3M, 3M will repair or replace any product determined by 3M to have a factory defect in workmanship or materials. 3M reserves the right to require product be returned to its facility for evaluation of warranty claims. This warranty does not cover product damage due to wear, abuse, misuse, damage in transit, failure to maintain the product or other damage beyond 3M's control. 3M will be the sole judge of product condition and warranty options.

This warranty applies only to the original purchaser and is the only warranty applicable to 3M's fall protection products. Please contact 3M's customer service department at 800-328-6146 or via email at [3MFallProtection@mmm.com](mailto:3MFallProtection@mmm.com) for assistance.

**LIMITATION OF LIABILITY:** TO THE EXTENT PERMITTED BY APPLICABLE LAW, 3M IS NOT LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.



Fall Protection

### USA

3833 SALA Way  
Red Wing, MN 55066-5005  
Toll Free: 800.328.6146  
Phone: 651.388.8282  
Fax: 651.388.5065  
[3Mfallprotection@mmm.com](mailto:3Mfallprotection@mmm.com)

### Brazil

Rua Anne Frank, 2621  
Boqueirão Curitiba PR  
81650-020  
Brazil  
Phone: 0800-942-2300  
[falecoma3m@mmm.com](mailto:falecoma3m@mmm.com)

### Mexico

Calle Norte 35, 895-E  
Col. Industrial Vallejo  
C.P. 02300 Azcapotzalco  
Mexico D.F.  
Phone: (55) 57194820  
[3msaludocupacional@mmm.com](mailto:3msaludocupacional@mmm.com)

### Colombia

Compañía Latinoamericana de Seguridad S.A.S.  
Carrera 106 #15-25 Interior 105 Manzana 15  
Zona Franca - Bogotá, Colombia  
Phone: 57 1 6014777  
[fallprotection-co@mmm.com](mailto:fallprotection-co@mmm.com)

### Canada

260 Export Boulevard  
Mississauga, ON L5S 1Y9  
Phone: 905.795.9333  
Toll-Free: 800.387.7484  
Fax: 888.387.7484  
[3Mfallprotection-ca@mmm.com](mailto:3Mfallprotection-ca@mmm.com)

### EMEA (Europe, Middle East, Africa)

**EMEA Headquarters:**  
Le Broc Center  
Z.I. 1re Avenue - BP15  
06511 Carros Le Broc Cedex  
France  
Phone: + 33 04 97 10 00 10  
Fax: + 33 04 93 08 79 70  
[informationfallprotection@mmm.com](mailto:informationfallprotection@mmm.com)

### Australia & New Zealand

95 Derby Street  
Silverwater  
Sydney NSW 2128  
Australia  
Phone: +(61) 2 8753 7600  
Toll-Free : 1800 245 002 (AUS)  
Toll-Free : 0800 212 505 (NZ)  
Fax: +(61) 2 8753 7603  
[anzfallprotectionsales@mmm.com](mailto:anzfallprotectionsales@mmm.com)

### Asia

**Singapore:**  
1 Yishun Avenue 7  
Singapore 768923  
Phone: +65-6450 8888  
Fax: +65-6552 2113  
[TotalFallProtection@mmm.com](mailto:TotalFallProtection@mmm.com)

### Shanghai:

19/F, L'Avenue, No.99 Xian Xia Rd  
Shanghai 200051, P R China  
Phone: +86 21 62539050  
Fax: +86 21 62539060  
[3MFallProtection-CN@mmm.com](mailto:3MFallProtection-CN@mmm.com)

### Korea:

3M Korea Ltd  
20F, 82, Uisadang-daero,  
Yeongdeungpo-gu, Seoul  
Phone: +82-80-033-4114  
Fax: +82-2-3771-4271  
[TotalFallProtection@mmm.com](mailto:TotalFallProtection@mmm.com)

### Japan:

3M Japan Ltd  
6-7-29, Kitashinagawa, Shinagawa-ku, Tokyo  
Phone: +81-570-011-321  
Fax: +81-3-6409-5818  
[psd.jp@mmm.com](mailto:psd.jp@mmm.com)

WEBSITE:  
[3M.com/FallProtection](http://3M.com/FallProtection)



EU DECLARATION OF CONFORMITY:  
[3M.com/FallProtection/DOC](http://3M.com/FallProtection/DOC)