

Fall Protection

ANSI/ASSP Z359.14-2021

OSHA 29 CFR 1910.140 OSHA 29 CFR 1926.502

3M[™] SMART-LOCK[®] SELF-RETRACTING DEVICES

USER INSTRUCTIONS 5908112 Rev. B

☑ F	I For identification of product codes, refer to Table 1. See "Table 1 - Product Specifications" for more product information.										
						Figure 1	L - Prod	uct Overvi	ew		
ANSI (Class 1)	ANSI (Class 2)	A	Arc Flash (ASTM F887)	1 2 3 Image: Connectors Housing Extended Working Ler							
ANS	ANS	OSHA	Arc F	Model		Conne A	ectors B	Housing Size	Lifeline	Extended Length (X)	Working Length (WL)
	\checkmark	\checkmark		3503850	3	C1	C2	Size E	GS2	20 ft. (6.0 m)	17.1 ft. (5.2 m)
\checkmark		\checkmark	\checkmark	3503871	1	C1	C2	Size A	SR1	20 ft. (6.0 m)	18.1 ft. (5.5 m)
\checkmark		\checkmark		3503872	1	C1	C2	Size A	GS1	20 ft. (6.0 m)	18.1 ft. (5.5 m)
\checkmark		\checkmark		3503874	1	C1	C2	Size A	GS1	30 ft. (9.0 m)	28.1 ft. (8.5 m)
\checkmark		1		3503875	1	C3	C4	Size A	SS1	25 ft. (7.6 m)	23.1 ft. (7.0 m)
\checkmark		1		3503876	1	C1	C2	Size B	SR2	35 ft. (10.7 m)	33.0 ft. (10.1 m)
\checkmark		\checkmark		3503878	1	C1	C2	Size B	GS1	50 ft. (15 m)	48.0 ft. (14.6 m)
\checkmark		1		3503879	1	C3	C4	Size B	SS1	40 ft. (12.1 m)	38.0 ft. (11.5 m)
	\checkmark	\checkmark		3503880	2	C1	C2	Size C	GS2	20 ft. (6.0 m)	17.3 ft. (5.3 m)
	<i>√</i>	<i>√</i>		3503881	2	C1	C2	Size D	GS2	30 ft. (9.0 m)	27.3 ft. (8.3 m)
	\checkmark	\checkmark		3503890	3	C1	C2	Size F	GS2	30 ft. (9.0 m)	27.1 ft. (8.3 m)

N SAFETY INFORMATION

Please read, understand, and follow all safety information contained in these instructions, prior to the use of this product. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

These instructions must be provided to the user of the equipment. Retain these instructions for future reference.

Intended Use:

This product is used as part of a complete Fall Protection system.

Use in any other application including, but not limited to, material handling, recreational or sports-related activities, or other activities not described in these instructions, is not approved by 3M and could result in serious injury or death.

This product is only to be used by trained users in workplace applications.

⚠ WARNING

This product is used as part of a complete Fall Protection system. All users must be fully trained in the safe installation and operation of their complete Fall Protection system. **Misuse of this product could result in serious injury or death.** For proper selection, operation, installation, maintenance, and service, refer to all instruction manuals and manufacturer recommendations. For more information, see your supervisor or contact 3M Technical Services.

- To reduce the risks associated with using a Self-Retracting Device which, if not avoided, could result in serious injury or death:
 - Inspect the product before each use and after any fall event, in accordance with the procedures specified in these instructions.
 - If inspection reveals an unsafe or defective condition, remove the product from service immediately and clearly tag it "DO NOT USE". Destroy or repair the product as required by these instructions.
 - Any product that has been subject to fall arrest or impact force must be immediately removed from service. Destroy or repair the product as required by these instructions.
 - Ensure that Fall Protection systems assembled from components made by different manufacturers are compatible and meet all applicable Fall Protection regulations, standards, or requirements. Always consult a Competent or Qualified Person before using these systems.
 - Ensure the product is kept free from all hazards including, but not limited to: entanglement with users, other workers, moving machinery, other surrounding objects, or impact from overhead objects that could fall onto the product or users.
 - Do not twist, tie, knot, or allow slack in the lifeline.
 - Avoid trip hazards with legs of the lifeline. Attach any unused lifeline legs to the lanyard parking elements on your full body harness, if present.
 - Do not exceed the number of allowable users specified in these instructions.
 - Do not use in applications that have an obstructed fall path. A clear path is required to lock the SRD. Working on slowly shifting materials (e.g. sand or grain), or within confined spaces or limited spaces, may not allow the worker to reach sufficient speed to lock the SRD.
 - Avoid sudden or quick movements during work operation because this may cause the SRD to unintentionally lock.
 - Use caution when installing, using, or moving the product as moving parts may create pinch points.
 - Use appropriate edge protection when the product may contact sharp edges or abrasive surfaces.
 - Ensure the product is configured and installed properly for safe operation as described in these instructions.
 - Immediately remove the product from service if it has been used in a descent.
 - Before use, ensure the descent path and landing area are clear of any obstructions or hazards.

To reduce the risks associated with working at height which, if not avoided, could result in serious injury or death:

- Your health and physical condition must allow you to safely work at height and to withstand all forces associated with a fall arrest event. Consult your doctor if you have questions regarding your ability to use this equipment.
- Never exceed allowable capacity of your Fall Protection equipment.
- Never exceed the maximum free fall distance specified for your Fall Protection equipment.
- Do not use any Fall Protection equipment that fails inspection, or if you have concerns about the use or suitability of the equipment. Contact 3M Technical Services with any questions.
- Some subsystem and component combinations may interfere with the operation of this equipment. Only use compatible connections. Contact 3M Technical Services before using this equipment in combination with components or subsystems other than those described in these instructions.
- Use extra precautions when working around moving machinery, electrical hazards, extreme temperatures, chemical hazards, explosive or toxic gases, sharp edges, abrasive surfaces, or below overhead materials that could fall onto you or your Fall Protection equipment.
- Ensure use of your product is rated for the hazards present in your work environment.
- Ensure there is sufficient fall clearance when working at height.
- Never modify or alter your Fall Protection equipment. Only 3M, or persons authorized in writing by 3M, may make repairs to 3M equipment.
- Before using Fall Protection equipment, ensure a written rescue plan is in place to provide prompt rescue if a fall incident occurs.
- If a fall incident occurs, immediately seek medical attention for the fallen worker.
- Only use a full body harness for Fall Arrest applications. Do not use a body belt.
- Minimize swing falls by working as directly below the anchorage point as possible.
- A secondary Fall Protection system must be used when training with this product. Trainees must not be exposed to an unintended fall hazard.
- Always wear appropriate Personal Protective Equipment when installing, using, or inspecting the product.
- Never work below a suspended load or worker.
- Always maintain 100% tie-off.

Always ensure you are using the latest revision of your 3M instruction manual. Visit <u>www.3m.com/userinstructions</u> or contact 3M Technical Services for updated instruction manuals.

PRODUCT OVERVIEW:

Figure 1 illustrates the product models covered by this instruction. Self-Retracting Devices (SRDs) are drum-wound lifelines that retract into solid housings.

The following SRD types are covered by this instruction:

- **Class 1 Self-Retracting Device (Figures 1.1, 2.1):** Class 1 Self-Retracting Devices (SRDs) are suitable for applications where the lifeline remains generally vertical during use. This type may be used for Fall Arrest or Restraint applications.
- Class 2 Self-Retracting Device with Leading Edge (Figures 1.2, 2.2): Class 2 Self-Retracting Devices with Leading Edge (SRD-LEs) are suitable for applications where the lifeline remains generally horizontal during use. SRD-LEs have an integral energy absorber to withstand impact loading of the lifeline over a sharp or abrasive edge during fall arrest and minimize fall arrest forces on the user. This type may be used for Fall Arrest or Restraint applications.
- Class 2 Self-Retracting Device with Leading Edge and Modular Connectors (Figures 1.3, 2.3): This type of SRD-LE includes a modular connector for attachment and removal of the energy absorber. The energy absorber must be connected during use. This type functions the same as an SRD-LE in all other respects.

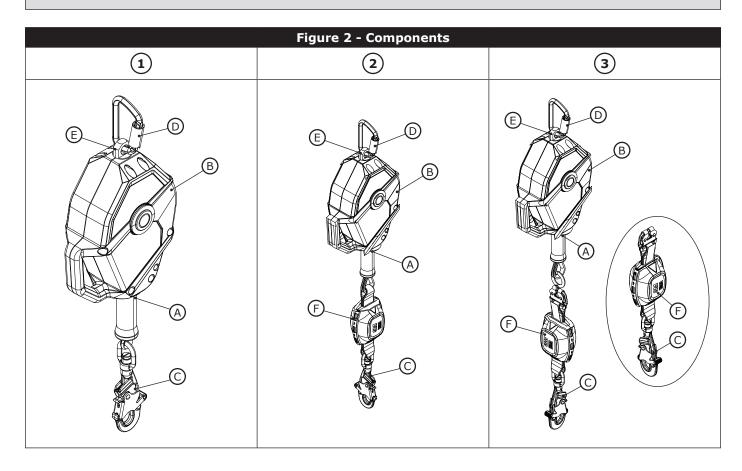
Figure 2 identifies key components of the available SRD models. In a standard SRD, the Lifeline (A) extends and retracts from within the Housing (B). The Top Connector (D) mounted on the SRD secures the SRD to the anchorage point and is connected to the SRD by means of the Swivel Eye (E). The Bottom Connector (C) is secured at the end of the Lifeline and attaches to the designated Fall Arrest attachment element of the user's full body harness. Energy Absorbers (F) dissipate kinetic energy and limit deceleration forces during fall arrest.

Some SRD-LE models covered in this instruction include a modular energy absorber. For these models, the modular energy absorber includes the Energy Absorber (F), the Bottom Connector (C), and a connecting component. Instead of disconnecting the SRD-LE from its anchorage point or disconnecting their harness from the SRD-LE after use, the user may simply disconnect the modular energy absorber, taking that component with them to reattach later.

Each product model has its own particular size and its own combination of components as listed in Figure 1. See Table 1 for more information on Component Specifications.

Certain SRD models in this instruction may be used in environments with additional hazards. See Figure 1 for identification of these models.

• Arc Flash: "Arc Flash" models meet the requirements of ASTM F887 and are designed for use in environments where an arc flash or electrical explosion could occur.



 \mathbf{V} 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.

0	/				ecifications				
System Sr	pecifications:								
Anchorage:	anchorage		d anchorage	e. The ancho	system application and whether it is a certified rage structure must sustain static loads applied in the				
	System Ap	oplication Certified Anchorage		nchorage	Non	-Certified Anchorage	Defined by		
	Fall Arrest	2 times maximum arres		imum arrestin	ig force 5,00	0 lbf (22.2 kN)	OSHA, ANSI		
	Restraint		2 times fores	seeable force		0 lbf (4.4 kN) per ANSI 0 lbf (22.2 kN) per OSHA	OSHA, ANSI		
	Work Positi	ioning	2 times fores	seeable force	3,00	0 lbf (13.3 kN)	OSHA, ANSI		
	Rescue		5 times appl	ied load	3,00	0 lbf (13.3 kN)	ANSI		
	by the num		s attached t	the anchor	rage. See ANS	trengths stated above I/ASSP Z359.2 for mo			
Standards: Each product model is certified to, or conforms with, the applicable standards and regulations listed wit Figure 1. If none are listed within Figure 1, then everything listed on the cover appies.							ations listed withi		
Service Temperatur		80°F (-40°C to	54.4°C)						
Compone	nt Specificatior	าร:		1					
Figure 2 Reference	Component			Materials					
A	Lifeline			(see Lifelin	(see Lifeline Specifications)				
B	Housing			Nylon					
Ô	Bottom Connecto	or		(see Connector Specifications)					
D	Top Connector			(see Connector Specifications)					
Ē	Swivel Eye			Stainless steel or zinc-plated steel					
Ē	Energy Absorber			Tear web: vectran webbing with rubber cover and nylon tubing					
-			ents are mad			ess steel, steel, aluminun	, ,		
	r Specifications	5:							
	r Specifications	5: Description			Material	Gate Opening	Gate Strength		
Connector					Material Steel	Gate Opening	Gate Strength 3,600 lbf (16 kN)		
Connector Figure 1 Reference	Model Number	Description	hook			11/16-in. (17 mm)			
Connector Figure 1 Reference	Model Number	Description Carabiner	hook		Steel	11/16-in. (17 mm)	3,600 lbf (16 kN)		
Connector Figure 1 Reference C1 C2	Model Number 2000112 9502194	Description Carabiner Swiveling snap		2	Steel Zinc-plated steel	11/16-in. (17 mm) 3/4-in. (19 mm)	3,600 lbf (16 kN) 3,600 lbf (16 kN)		
Connector Figure 1 Reference C1 C2 C3	Model Number 2000112 9502194 2000127	Description Carabiner Swiveling snap Carabiner	hook	2 2 2 2 2	Steel Zinc-plated steel Stainless steel	11/16-in. (17 mm) 3/4-in. (19 mm) 11/16-in. (17 mm) 3/4-in. (19 mm)	3,600 lbf (16 kN) 3,600 lbf (16 kN) 3,600 lbf (16 kN)		

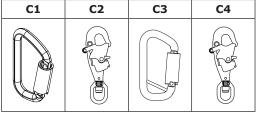


Table 1 – Product Specifications

Modular Connectors:

	Modular Energy	Connecting Component				
SRD Model	Absorber	D-ring	Buckle			
3503850	1246512	9506214	9501441			
3503890	1246512	9506214	9501441			

Lifeline Specifications:

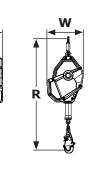
Figure 1 Reference	Description
GS1	3/16-in. (5 mm) galvanized steel wire rope
GS2	7/32-in. (5.5 mm) galvanized steel wire rope
SR1	7/32-in. (5.5 mm) Technora and polyester rope with Kevlar sheath
SR2	1/4-in. (6 mm) Technora rope
SS1	13/64-in. (5 mm) stainless steel wire rope

Performance - SRDs	ANSI Models	OSHA Models			
Capacity Range:	130 lb 310 lb. (59 kg - 140 kg)	130 lb 310 lb. (59 kg - 140 kg)	311 lb 420 lb. (141 kg - 191 kg)		
Maximum Arresting Force:	1,500 lbf (6.7 kN)	1,350 lbf (6 kN)	1,800 lbf (8 kN)		
Average Arresting Force:	1,125 lbf (5 kN)	1,125 lbf (5 kN)	N/A		
Maximum Arrest Distance: *Assumes the SRD is mounted directly above the user.	30 in. (0.8 m)	30 in. (0.8 m)	42 in (1.1 m)		
Minimum Fall Clearance Required: *Assumes the SRD is mounted directly above the user.	4 ft. (1.2 m)	4 ft. (1.2 m)	5 ft (1.5 m)		
Maximum Free Fall: *SRD must be mounted above user's D-ring.	2 ft (0.6 m)	2 ft (0.6 m)	2 ft (0.6 m)		

Performance - SRD-LEs	ANSI/OSHA Models
Capacity Range:	130 lb 310 lb. (59 kg - 140 kg)
Maximum Arresting Force:	1,500 lbf (6.7 kN)
Average Arresting Force:	1,125 lbf (5 kN)
Maximum Arrest Distance: *Assumes the SRD is mounted directly above the user.	42 in (1.1 m)
Minimum Fall Clearance Required:	Vertical: 6 ft. (1.8 m) Horizontal: 15 ft. (4.6 m)
Maximum Free Fall: *SRD must be mounted above user's D-ring.	2 ft (0.6 m)
Maximum Free Fall - LE: *Measured from user's D-ring to working surface.	5 ft (1.5 m)

Dimensions:

Dimension			
Figure 1 Reference	D	w	R
Size A	4.0 in.	9.0 in.	23.5 in.
	(10.2 cm)	(22.9 cm)	(59.7 cm)
Size B	4.3 in.	10.0 in.	25.0 in.
	(10.9 cm)	(25.4 cm)	(63.5 cm)
Size C	4.0 in.	9.0 in.	31.5 in.
	(10.2 cm)	(22.9 cm)	(80.0 cm)
Size D	4.3 in.	10.0 in.	32.5 in.
	(10.9 cm)	(25.4 cm)	(82.6 cm)
Size E	4.0 in.	9.0 in.	34.9 in.
	(10.2 cm)	(22.9 cm)	(88.6 cm)
Size F	4.3 in.	10.0 in.	36.4 in.
	(10.9 cm)	(25.4 cm)	(92.5 cm)



1.0 PRODUCT APPLICATION

- **1.1 PURPOSE:** 3M Self-Retracting Devices (SRDs) are designed for use as a connecting subsystem in a Fall Protection system. Once anchored, the lifeline extends and retracts automatically as the worker moves. If a fall occurs, a sensing mechanism activates the device and arrests the fall. For more information on system applications, refer to the "Product Overview" and Table 1.
- **1.2 SUPERVISION:** Use of this equipment must be supervised by a Competent Person.
- **1.3 STANDARDS:** Your product conforms to the national or regional standards identified on the front cover of these instructions. If this product is resold outside the original country of destination, the re-seller must provide these instructions in the language of the country in which the product will be used.

For more information on certification or conformance requirements, refer to the applicable standards and regulations listed for your product (e.g. the ANSI/ASSP Z359 Fall Protection codes).

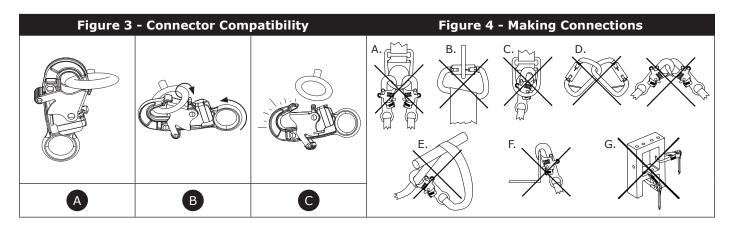
- **1.4 TRAINING:** This equipment must be installed and used by persons trained in its correct application. These instructions are to be used as part of an employee training program as required by national, regional, or local standards. It is the responsibility of the users and installers of this equipment to ensure they are familiar with these instructions, trained in the correct care and use of this equipment, and are aware of the operating characteristics, application limitations, and consequences of improper use of this equipment.
- **1.5 RESCUE PLAN:** When using this equipment and connecting subsystems, the employer must have a written rescue plan and the means to implement and communicate that plan to users, authorized persons, and rescuers. A trained, on-site rescue team is recommended. Team members should be provided with the equipment and techniques necessary to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuer proficiency. Rescuers should be provided with these instructions. There should be visual contact or means of communication with the person being rescued at all times during the rescue process.

2.0 SYSTEM REQUIREMENTS

- **2.1 ANCHORAGE:** Anchorage requirements vary with the Fall Protection application. The mounting structure on which the equipment is placed must meet the Anchorage specifications defined in Table 1.
- **2.2 CAPACITY:** The user capacity of a complete Fall Protection system is limited by its lowest rated maximum capacity component. For example, if your connecting subsystem has a capacity that is less than your harness, you must comply with the capacity requirements of your connecting subsystem. See the manufacturer instructions for each component of your system for capacity requirements.
- **2.3 ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to: high heat, chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, sharp edges, or overhead materials that may fall and contact the user or equipment. Contact 3M Technical Services for further clarification.
- 2.4 LIFELINE HAZARDS: Ensure the lifeline is kept free from all hazards including, but not limited to: entanglement with users, other workers, moving machinery, other surrounding objects, or impact from overhead objects that could fall onto the lifeline or users.
- **2.5** FALL PATH AND SRD LOCKING SPEED: Do not use in applications that have an obstructed fall path. A clear path is required to lock the SRD. Working on slowly shifting materials (e.g. sand or grain), or within limited spaces, may not allow the worker to reach sufficient speed to lock the SRD.
- **2.6 COMPONENT COMPATIBILITY:** 3M equipment is designed for use with 3M equipment. Use with non-3M equipment must be approved by a Competent Person. Substitutions made with non-approved equipment may jeopardize equipment compatibility and may affect the safety and reliability of your Fall Protection system. Read and follow all instructions and warnings for all equipment prior to use.
- **2.7 CONNECTOR COMPATIBILITY:** Connectors are compatible with connecting elements when the size and shape of either component does not cause the connector to inadvertently open, regardless of orientation. Connectors must comply with applicable standards. Connectors must be fully closed and locked during use.

3M Connectors (snap hooks and carabiners) are designed to be used only as specified in each instruction manual. Ensure connectors are compatible with the system components to which they are connected. Do not use equipment that is non-compatible. Use of non-compatible components may cause the connector to unintentionally disengage (see Figure 3). If the connecting element to which a connector attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the connector (A). This force could then cause the gate to open (B), disengaging the connector from the connecting element (C).

- **2.8 MAKING CONNECTIONS:** All connections must be compatible in size, shape, and strength. See Figure 4 for examples of inappropriate connections. Do not attach snap hooks and carabiners:
 - A. To a D-Ring to which another connector is attached.
 - B. In a manner that would result in a load on the gate. Large-throat snap hooks should not be connected to D-Rings or other connecting elements, unless the snap hook has a gate strength of 16 kN (3,600 lbf) or greater.
 - C. In a false engagement, where size or shape of the connector or connecting element is not compatible and, without visual confirmation, would seem to be fully engaged.
 - D. To each other.
 - E. Directly to webbing or rope lanyard or tie-back material, unless the instruction manuals for both the lanyard and connector specifically allow such a connection.
 - F. To any object whose size or shape does not allow the connector to fully close and lock, or that could cause connector roll-out.
 - G. In a manner that does not allow the connector to align properly while under load.



3.0 INSTALLATION

- **3.1 OVERVIEW:** Installing this product requires effective planning and knowledge of fall clearance requirements. In the event of a fall, there must be enough fall clearance present to safely arrest the user.
- **3.2 PLANNING:** Plan your Fall Protection system before starting your work. Account for all factors that may affect your safety before, during, and after a fall. Consider all requirements and limitations specified in these instructions.
 - **A. SHARP EDGES:** Avoid working where system components may be in contact with, or scrape against, unprotected sharp edges and abrasive surfaces. All sharp edges and abrasive surfaces should be covered with protective material.

☑ Only SRD-LEs may be used for applications with unprotected sharp edges or abrasive surfaces.

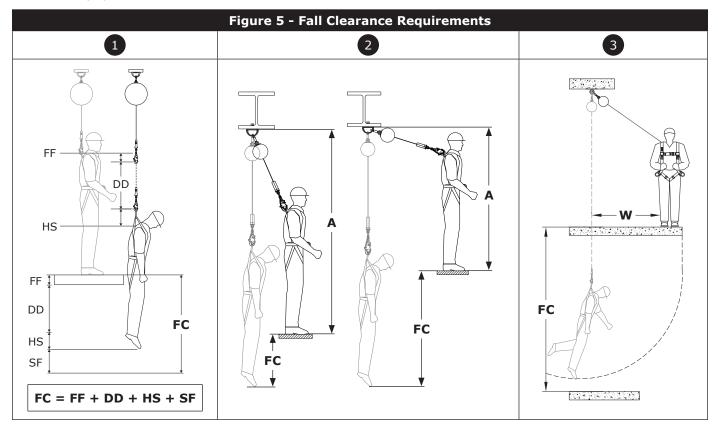
- 3.3 FALL CLEARANCE: It is critical that the user is aware of fall clearance and its requirements before using this product.
 - **A. DEFINITION:** Fall clearance is the measure of distance between a user and the next obstruction below them. Before use of this product, the user should determine how much fall clearance is required to prevent them from striking an obstruction should they fall.

A user's **Required Fall Clearance (FC) is the sum of Free Fall (FF), Deceleration Distance (DD), Harness Stretch (HS), and a Safety Factor (SF).** See Figure 5.1 for reference.

- Free Fall (FF) is the distance the user travels before activation of the deceleration device.
- **Deceleration Distance (DD)** is the distance the user falls measured from activation of the deceleration device until stopping.
- Harness Stretch (HS) is the amount of slack extending from the user's harness when the user is suspended by their harness attachment element.
- Safety Factor (SF) is a set amount of distance added to fall clearance to ensure user safety.

There may be additional factors affecting Required Fall Clearance within your Fall Arrest system, such as D-ring extension length and anchorage deflection. For coverage of these factors, and others not outlined above, refer to the manufacturer instructions for each component of your Fall Arrest system. Additional factors, when provided, should be added to the fall clearance values in this instruction.

- **B. MINIMIZING REQUIREMENTS:** The user should always position their Fall Arrest system to minimize fall potential and potential fall distance. To keep fall clearance requirements to a minimum, it is recommended that the user work as directly below their anchorage point as possible.
 - **ANCHORAGE HEIGHT:** The Required Fall Clearance (FC) for a user increases as Anchorage Height (A) decreases. The user experiences a greater amount of free fall when connected to an anchorage point below them, since the user will have to travel that much farther should they fall. See Figure 5.2 for reference.
 - **SWING FALLS:** The Required Fall Clearance (FC) for a user increases as User Work Radius (W) increases. Swing falls occur when the anchorage point is not directly above the user when a fall occurs. See Figure 5.3 for reference. The force of striking an object during a swing fall could cause serious injury or death. Do not permit a swing fall if injury could occur.



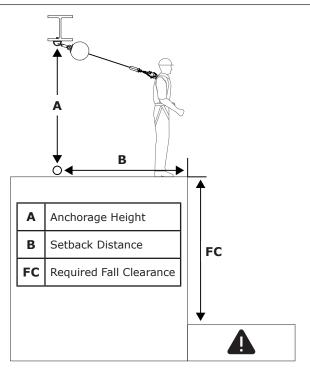
FALL CLEARANCE CHARTS

Required Fall Clearance has been provided within the charts below. To determine Required Fall Clearance:

- 1. Select the clearance chart that matches your product type and includes a capacity fitting your combined weight.
- 2. Determine the Anchorage Height (A) of your subsystem. Anchorage Height is measured from the top of the working platform to the bottom of your anchorage connection point.
- 3. Determine the Setback Distance (B) of your system. Setback Distance is measured from directly below your anchorage connection point to the edge of the working platform.
- 4. After obtaining your Anchorage Height (A) and Setback Distance (B), use (A) and (B) within the Fall Clearance Chart to determine your Required Fall Clearance (FC).

 \checkmark When values for (A) and (B) measured by the user do not match those listed in the table, the user should round up to the next highest listed value. If there is no higher listed value, then the user should reduce their intended Anchorage Height or Setback Distance to a lower value.

A user height of 1.8 m (6.0 ft.) was used for all values listed. Kneeling or crouching will reduce effective user height and will require an additional 1.0 m (3.28 ft.) of Fall Clearance.

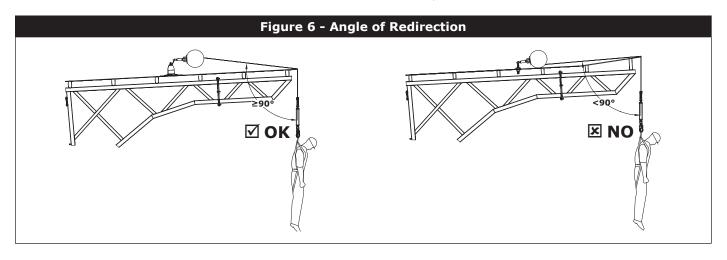


SRD:		В									
	lb 310 lb. ‹g - 140 kg)	0 ft. (0.0 m)	3 ft. (0.9 m)	6 ft. (1.8 m)	9 ft. (2.7 m)	12 ft. (3.7 m)	15 ft. (4.6 m)	21 ft. (6.4 m)	27 ft. (8.2 m)	33 ft. (10.1 m	
	<8 ft. (2.4 m)	4.0 ft. (1.2 m)	\ge	\ge	\ge	\ge	\succ	\ge	\ge	\ge	
ĺ	8 ft. (2.4 m)	4.0 ft. (1.2 m)	5.4 ft. (1.6 m)	\succ	\succ	\ge	\succ	\ge	\succ	\triangleright	
	10 ft. (3.0 m)	4.0 ft. (1.2 m)	4.9 ft. (1.5 m)	\succ	\succ	\succ	\succ	\succ	\succ	\triangleright	
	15 ft. (4.6 m)	4.0 ft. (1.2 m)	4.5 ft. (1.4 m)	5.8 ft. (1.8 m)	\succ	\ge	\succ	\succ	\succ	\succ	
\mathbf{a}	20 ft. (6.1 m)	4.0 ft. (1.2 m)	4.3 ft. (1.3 m)	5.2 ft. (1.6 m)	6.6 ft. (2.0 m)	\ge	\bigtriangledown	\ge	$\mathbf{\succ}$	\searrow	
A)	25 ft. (7.6 m)	4.0 ft. (1.2 m)	4.2 ft. (1.3 m)	4.9 ft. (1.5 m)	6.0 ft. (1.8 m)	7.5 ft. (2.3 m)	\succ	\ge	\succ	\triangleright	
	30 ft. (9.1 m)	4.0 ft. (1.2 m)	4.2 ft. (1.3 m)	4.7 ft. (1.4 m)	5.6 ft. (1.7 m)	6.8 ft. (2.1 m)	8.3 ft. (2.5 m)	\ge	\succ	\succ	
	40 ft. (12.2 m)	4.0 ft. (1.2 m)	4.1 ft. (1.2 m)	4.5 ft. (1.4 m)	5.2 ft. (1.6 m)	6.1 ft. (1.8 m)	7.2 ft. (2.2 m)	10.0 ft. (3.0 m)	$\mathbf{\succ}$	\searrow	
	50 ft. (15.2 m)	4.0 ft. (1.2 m)	4.1 ft. (1.2 m)	4.4 ft. (1.3 m)	4.9 ft. (1.5 m)	5.6 ft. (1.7 m)	6.5 ft. (2.0 m)	8.8 ft. (2.7 m)	11.6 ft. (3.5 m)	\triangleright	
	60 ft. (18.3 m)	4.0 ft. (1.2 m)	4.1 ft. (1.2 m)	4.3 ft. (1.3 m)	4.7 ft. (1.4 m)	5.3 ft. (1.6 m)	6.0 ft. (1.8 m)	7.9 ft. (2.4 m)	10.4 ft. (3.2 m)	13.3 ft. (4.1 m)	

V A	\overrightarrow{A} A Safety Factor of 0.5 ft. (0.15 m) was used for all values in this chart.										
	SRD:		в								
-	. lb 420 lb. . kg - 191 kg)	0 ft. (0.0 m)	3 ft. (0.9 m)	6 ft. (1.8 m)	9 ft. (2.7 m)	12 ft. (3.7 m)	15 ft. (4.6 m)	21 ft. (6.4 m)	27 ft. (8.2 m)	33 ft. (10.1 m)	
	<8 ft. (2.4 m)	5.0 ft. (1.5 m)	\succ	\succ	\succ	\succ	\succ	\succ	\succ	\succ	
	8 ft. (2.4 m)	5.0 ft. (1.5 m)	6.4 ft. (2.0 m)	\succ	\succ	\succ	\succ	\succ	\succ	\succ	
	10 ft. (3.0 m)	5.0 ft. (1.5 m)	5.9 ft. (1.8 m)	\succ	\succ	\succ	\succ	\succ	\succ	\succ	
	15 ft. (4.6 m)	5.0 ft. (1.5 m)	5.5 ft. (1.7 m)	6.8 ft. (2.1 m)	\succ	\succ	\succ	\succ	\succ	\succ	
	20 ft. (6.1 m)	5.0 ft. (1.5 m)	5.3 ft. (1.6 m)	6.2 ft. (1.9 m)	7.6 ft. (2.3 m)	\ge	\ge	\succ	\succ	\ge	
(A)	25 ft. (7.6 m)	5.0 ft. (1.5 m)	5.2 ft. (1.6 m)	5.9 ft. (1.8 m)	7.0 ft. (2.1 m)	8.5 ft. (2.6 m)	\ge	\succ	\succ	\ge	
	30 ft. (9.1 m)	5.0 ft. (1.5 m)	5.2 ft. (1.6 m)	5.7 ft. (1.7 m)	6.6 ft. (2.0 m)	7.8 ft. (2.4 m)	9.3 ft. (2.8 m)	\succ	\succ	\succ	
	40 ft. (12.2 m)	5.0 ft. (1.5 m)	5.1 ft. (1.6 m)	5.5 ft. (1.7 m)	6.2 ft. (1.9 m)	7.1 ft. (2.2 m)	8.2 ft. (2.5 m)	11.0 ft. (3.4 m)	\succ	\succ	
	50 ft. (15.2 m)	5.0 ft. (1.5 m)	5.1 ft. (1.6 m)	5.4 ft. (1.6 m)	5.9 ft. (1.8 m)	6.6 ft. (2.0 m)	7.5 ft. (2.3 m)	9.8 ft. (3.0 m)	12.6 ft. (3.8 m)	\ge	
	60 ft. (18.3 m)	5.0 ft. (1.5 m)	5.1 ft. (1.6 m)	5.3 ft. (1.6 m)	5.7 ft. (1.7 m)	6.3 ft. (1.9 m)	7.0 ft. (2.1 m)	8.9 ft. (2.7 m)	11.4 ft. (3.5 m)	14.3 ft. (4.4 m)	

$\mathbf{\nabla}$	\checkmark A Safety Factor of 1.5 ft. (0.45 m) was used for all values in this chart.											
	SRD-LE:		в									
	lb 310 lb. kg - 140 kg)	0 ft. (0.0 m)	3 ft. (0.9 m)	6 ft. (1.8 m)	9 ft. (2.7 m)	12 ft. (3.7 m)	15 ft. (4.6 m)	21 ft. (6.4 m)	27 ft. (8.2 m)	33 ft. (10.1 m)		
	<8 ft. (2.4 m)	6.0 ft. (1.8 m)	\succ	\succ	\succ	\succ	\succ	\succ	\succ	\succ		
	8 ft. (2.4 m)	6.0 ft. (1.8 m)	7.4 ft. (2.2 m)	\succ	\succ	\succ	\succ	\succ	\succ	\succ		
	10 ft. (3.0 m)	6.0 ft. (1.8 m)	6.9 ft. (2.1 m)	\succ	\succ	\succ	\succ	\succ	\succ	\ge		
	15 ft. (4.6 m)	6.0 ft. (1.8 m)	6.5 ft. (2.0 m)	7.8 ft. (2.4 m)	\succ	\succ	\succ	\succ	\succ	\ge		
	20 ft. (6.1 m)	6.0 ft. (1.8 m)	6.3 ft. (1.9 m)	7.2 ft. (2.2 m)	8.6 ft. (2.6 m)	\succ	\succ	\succ	\succ	\succ		
(A)	25 ft. (7.6 m)	6.0 ft. (1.8 m)	6.2 ft. (1.9 m)	6.9 ft. (2.1 m)	8.0 ft. (2.4 m)	9.5 ft. (2.9 m)	\succ	\succ	\succ	\searrow		
	30 ft. (9.1 m)	6.0 ft. (1.8 m)	6.2 ft. (1.9 m)	6.7 ft. (2.1 m)	7.6 ft. (2.3 m)	8.8 ft. (2.7 m)	10.3 ft. (3.1 m)	\succ	\succ	\succ		
	40 ft. (12.2 m)	6.0 ft. (1.8 m)	6.1 ft. (1.8 m)	6.5 ft. (2.0 m)	7.2 ft. (2.2 m)	8.1 ft. (2.5 m)	9.2 ft. (2.8 m)	12.0 ft. (3.6 m)	\succ	\succ		
	50 ft. (15.2 m)	6.0 ft. (1.8 m)	6.1 ft. (1.8 m)	6.4 ft. (2.0 m)	6.9 ft. (2.1 m)	7.6 ft. (2.3 m)	8.5 ft. (2.6 m)	10.8 ft. (3.3 m)	13.6 ft. (4.2 m)	\succ		
	60 ft. (18.3 m)	6.0 ft. (1.8 m)	6.1 ft. (1.8 m)	6.3 ft. (1.9 m)	6.7 ft. (2.1 m)	7.3 ft. (2.2 m)	8.0 ft. (2.5 m)	9.9 ft. (3.0 m)	12.4 ft. (3.8 m)	15.3 ft. (4.7 m)		

- **3.4 FALL CLEARANCE FOR LEADING EDGE:** The SRD models covered by this instruction include models made for use with leading edges. Self-Retracting Devices with Leading Edge capabilities (SRD-LEs) must be used in applications where the SRD or its lifeline may come into contact with the leading edge. Do not use any other SRD type in these applications.
 - **A. PRECAUTIONS:** SRD-LEs have a number of unique precautions that must be observed during use. When planning use of an SRD-LE, consider all requirements for SRD-LEs specified in these instructions.
 - Users must observe the capacity requirements specified for SRD-LE models in Table 1.
 - The SRD-LE must be installed so that, in the event of a fall, the lifeline does not pass over the leading edge at an angle less than 90 degrees. See Figure 6 for reference.
 - Install the anchorage point at the same height of or above the edge where a fall might occur. Anchorage points below the edge are dangerous because they cause the lifeline to redirect at an angle less than 90 degrees. See Figure 6 for reference.
 - Do not work on the far side of an opening opposite the anchorage point.
 - Use of SRD-LEs may require special rescue procedures.
 - Never use a D-ring extension with SRD-LEs in leading edge applications.
 - **B. SHARP EDGE TESTS:** The SRD-LE models covered in this instruction have been successfully tested for horizontal use and for falls over a steel edge without burrs. As a result, these SRD-LE models may be used in similar situations. All requirements for use of these models must be observed, including required setback distances. Although SRD-LEs are more resistant than SRDs, the user should still, when possible, avoid working where the lifeline will continuously or repeatedly scrape against sharp edges and abrasive surfaces.
 - **C. FALL CLEARANCE REQUIREMENTS:** SRD-LE models have their own fall clearance requirements that must be observed. The SRD-LE fall clearance charts must be used for leading edge applications instead of the standard fall clearance charts. Use of the SRD-LE fall clearance charts is not a replacement for use of an SRD-LE.



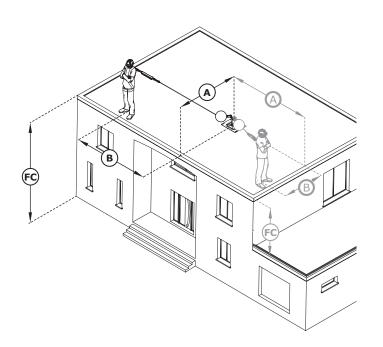
FALL CLEARANCE CHARTS - LEADING EDGE DEVICES (SRD-LE)

Required Fall Clearance has been provided within the charts below. To determine Required Fall Clearance:

- 1. Select the clearance chart that matches your product type and includes a capacity fitting your combined weight.
- 2. Determine the Setback Distance (A) of your subsystem. Setback Distance is measured from your anchorage connection point to the edge of the working platform.
- 3. Determine the Horizontal Distance (B) of your subsystem. Horizontal Distance is measured from the point on the edge directly opposite your anchorage connection point to the point on the edge that equals the furthest extent of your work area.
- 4. After obtaining your Setback Distance (A) and Horizontal Distance (B), use (A) and (B) within the Fall Clearance Chart to determine your Required Fall Clearance (FC).

 \checkmark When values for (A) and (B) measured by the user do not match those listed in the table, the user should round up to the next highest listed value. If there is no higher listed value, then the user should reduce their intended Anchorage Height or Setback Distance to a lower value.

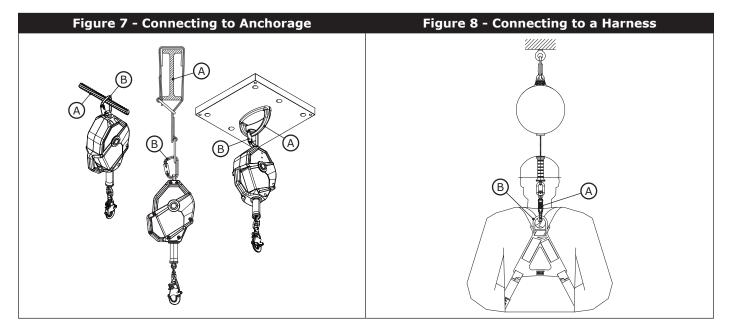
 \Box To determine the fullest extent of the user's work radius, it may be necessary to repeat these steps for each leading edge the user will be near.



V A	\checkmark A Safety Factor of 1.5 ft. (0.45 m) was used for all values in this chart.											
	RD-LE:	в										
130-310 lb. (59-140 kg)		0 ft. (0 m)	2 ft (0.61 m)	5 ft (1.52 m)	10 ft. (3.05 m)	15 ft. (4.57 m)	20 ft. (6.10 m)	25 ft. (7.62 m)				
	2 ft. (0.61 m)	15 ft. (4.57 m)	15.8 ft. (4.82 m)	\geq	\geq	\geq	\geq	\triangleright				
	5 ft. (1.52 m)	15 ft. (4.57 m)	15.4 ft. (4.69 m)	17.1 ft. (5.21 m)	\ge	\succ	\succ	\searrow				
	10 ft. (3.05 m)	15 ft. (4.57 m)	15.2 ft. (4.63 m)	16.2 ft. (4.94 m)	19.1 ft. (5.82 m)	\succ	\succ	\searrow				
	15 ft. (4.57 m)	15 ft. (4.57 m)	15.1 ft (4.60 m)	15.8 ft. (4.82 m)	18 ft. (5.49 m)	21.2 ft. (6.46 m)	\ge	\searrow				
	20 ft. (6.10 m)	15 ft. (4.57 m)	15.1 ft (4.60 m)	15.6 ft. (4.75 m)	17.4 ft. (5.30 m)	20 ft. (6.10 m)	23.3 ft. (7.1 m)	\searrow				
	25 ft. (7.62 m)	15 ft. (4.57 m)	15.1 ft (4.60 m)	15.5 ft. (4.72 m)	16.9 ft. (5.15 m)	19.2 ft. (5.85 m)	22 ft. (6.71 m)	25.4 ft. (7.74 m)				
	30 ft. (9.1 m)	15 ft. (4.57 m)	15.1 ft (4.60 m)	15.4 ft. (4.69 m)	16.6 ft. (5.06 m)	18.5 ft. (5.64 m)	21.1 ft. (6.43 m)	24.1 ft. (7.35 m)				
					FC							

- **3.5 CONNECTING TO ANCHORAGE:** Figure 7 illustrates typical SRD anchorage connections. The Anchorage (A) should be directly overhead to minimize free fall and swing fall hazards (see Section 3.3.B). Select an anchorage capable of sustaining the static loads defined in Table 1. Depending on system and product configuration, the user may secure the Top Connector (B) of the SRD directly to the anchorage structure or to an anchorage connector or anchorage connection point between.
- **3.6 CONNECTING TO A HARNESS:** Connection of the SRD to a harness will vary per the harness and which attachment element is used. See Figure 8 for reference. To secure, connect the Bottom Connector (A) of the SRD to the Attachment Element (B) of the full body harness. For more information as to which attachment elements may be used, see the manufacturer instructions of your harness.

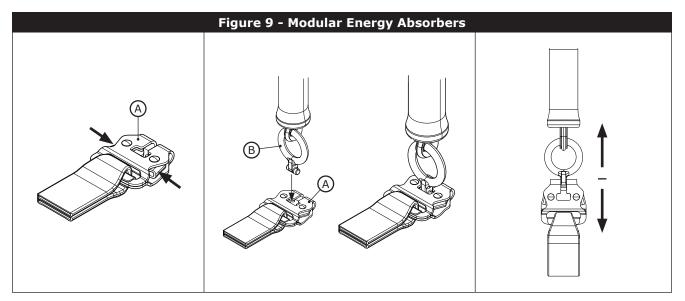
The "Product Overview" specifies for which Fall Protection applications your SRD model may be used. Ensure use of your harness complies with these requirements. A full body harness is required for Fall Arrest applications.



3.7 MODULAR ENERGY ABSORBERS: Some SRD models covered in this instruction include modular energy absorbers. Modular energy absorbers include a snap hook, an energy absorber, and a connecting component. The connecting component consists of two parts: the D-ring located on the SRD and the buckle located on the modular energy absorber. See Figure 9 for reference. To secure the modular energy absorber to the SRD:

 \boxed{M} See Table 1 for which SRD models have modular energy absorbers. Modular energy absorbers should only be used with the SRD models they are supplied with.

- 1. Unlock the modular buckle (A) by pressing and holding down the locks on either side of the buckle.
- 2. Insert the modular D-ring (B) into the buckle's middle slot.
- Pull the modular D-ring and modular buckle in opposite directions to fully seat the D-ring. Release the locks on the modular buckle to capture the modular D-ring inside the modular buckle. Both locks should return to their closed position.



4.0 USE

- **4.1 BEFORE EACH USE:** Verify that your work area and Fall Protection system meet all criteria defined in these instructions. Verify that a formal Rescue Plan is in place. Inspect the product per the 'User' inspection points defined in the "Inspection and Maintenance Log". If inspection reveals an unsafe or defective condition, or if there is any doubt about its condition for safe use, remove the product from service immediately. Clearly tag the product "DO NOT USE". See Section 5 for more information.
- **4.2 AFTER A FALL:** If this equipment is subjected to fall arrest or impact force, remove it from service immediately. Clearly tag it "DO NOT USE". See Section 5 for more information.
- **4.3 OPERATION:** Before using an SRD, the worker will need to secure the SRD to an anchorage connection point and an attachment element on their full body harness. Once secured, the worker may move within the established safe working area at normal speeds. During use, always allow the SRD lifeline to recoil back into the device under control.
- **4.4 TAGLINES:** Depending on the worksite and system configuration, the user may not always be able to reach the SRD at its anchor point. In these situations, a tagline may be necessary. A tagline is a long piece of cord that loops through the bottom connector of the SRD before looping back in on itself. When connected in this way, the user can raise or lower the bottom connector of the SRD to their location by pulling on the tagline.

 \checkmark Ensure the free end of the tagline does not become entangled with other workers, equipment, or machinery. If necessary, restrain the free end of the tagline.

4.5 USE WITH HORIZONTAL SYSTEMS: The SRDs covered in this instruction are compatible for use with horizontal systems, such as Horizontal Lifeline (HLL) systems and horizontal rail systems. See the manufacturer instructions of your horizontal system for more information on its compatibility with SRDs. SRDs may be used with a horizontal system only if both products allow for such use.

Required Fall Clearance values presented in these instructions are based on use with a rigid, stationary anchorage point. These values do not apply when the product is used with a Horizontal Lifeline (HLL) system. See the manufacturer instructions of your HLL system for fall clearance charts specific to that system, or for additional factors that must be accounted for before using the charts in these instructions.

5.0 INSPECTION

 \checkmark After equipment has been removed from service, it may not be returned to service until a Competent Person confirms in writing that it is acceptable to do so.

- **5.1 INSPECTION FREQUENCY:** The product shall be inspected before each use by a user and, additionally, by a Competent Person other than the user at intervals of no longer than one year. A higher frequency of equipment use and harsher conditions may require increasing the frequency of Competent Person inspections. The frequency of these inspections should be determined by the Competent Person per the specific conditions of the worksite.
- **5.2 INSPECTION PROCEDURES:** Inspect this product per the procedures listed in the "Inspection and Maintenance Log". Documentation of each inspection should be maintained by the owner of this equipment. An inspection and maintenance log should be placed near the product or be otherwise easily accessible to users. It is recommended that the product is marked with the date of next or last inspection.
- **5.3 DEFECTS:** If the product cannot be returned to service because of an existing defect or unsafe condition, then the product must be either destroyed or sent to 3M or a 3M-authorized service center for repair.
- **5.4 PRODUCT LIFE:** The functional life of the product is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

6.0 MAINTENANCE, STORAGE, AND REPAIR

Equipment that is in need of maintenance or scheduled for maintenance should be tagged "DO NOT USE". These equipment tags should not be removed until maintenance is performed.

- **6.1 CLEANING:** Periodically clean the lifeline and the exterior of the product with water and a mild soap solution. Rinse the product thoroughly and air dry. Clean labels as necessary. For more information, please refer to the technical bulletin on our website: <u>https://www.3M.com/FallProtection/Mechanical-Device-Cleaning</u>
- 6.2 DISPOSAL: Cut or otherwise disable the lifeline, then dispose of the product appropriately.
- **6.3 REPAIR:** Only 3M or parties authorized in writing by 3M may make repairs to this equipment. Do not attempt to disassemble the SRD or lubricate any parts.
- **6.4 STORAGE AND TRANSPORT:** Store and transport the product in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect components after extended storage.

7.0 LABELS and MARKINGS

7.1 LABELS: Figure 11 illustrates labels present on the SRD. Labels must be replaced if they are not present or are not fully legible. Information provided on each label is as follows:

\checkmark	Label images are intended to be representative. Please refer to your product labels for specific information.
A	1) Company Logo
В	1) Company Logo
С	1) Warning Statement - Read all instructions.
D	1) Warning Statement - Read all instructions.
B	1) Product Classification Information
F	1) Product Classification Information
G	1) Product Classification Information
Ð	1) Manufactured (Year/Month) 2) Lot Number 3) Model Number 4) Material 5) Applicable Standards 6) Working Length 7) Serial Number 8) Overall Length
	Reserve Lifeline - Remove from service if visible.
J	1) Warning Statement - Read all instructions. 2) Product Performance Specifications 3) Product Information 4) Inspection Log 5) Inspection Information 6) Do not load over an edge. 7) Lifeline Information
K	1) Warning Statement - Read all instructions.
C	1) Warning Statement - Read all instructions.
M	1) Product Classification Information
N	1) Product Classification Information
0	1) Manufactured (Year/Month) 2) Lot Number 3) Model Number 4) Material 5) Applicable Standards 6) Working Length 7) Serial Number 8) Overall Length
P	1) For use with compatible models only. 2) Manufactured (Year/Month) 3) Lot Number 4) Model Number
Q	1) Product Classification Information
R	1) Product Classification Information

8.0 RFID Tag

- **8.1 LOCATION:** 3M product covered in these user instructions is equipped with a Radio Frequency Identification (RFID) Tag. RFID Tags may be used in coordination with an RFID Tag Scanner for recording product inspection results. See Figure 10 for where your RFID Tag is located.
- **8.2 DISPOSAL:** Prior to disposing of this product, remove the RFID Tag and dispose/recycle in accordance with local regulations. For more information, please visit our website: <u>http://www.3M.com/FallProtection/RFID</u>

9.0 GLOSSARY OF TERMS

9.1 DEFINITIONS: The following terms and definitions are used in these instructions.

For a comprehensive list of terms and definitions, please visit our website: <u>www.3m.com/FallProtection/ifu-glossary</u>

- AUTHORIZED PERSON: A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard.
- **COMPETENT PERSON:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
- FALL ARREST SYSTEM: A collection of Fall Protection equipment configured to protect the user in the event of a fall.
- **QUALIFIED PERSON:** A person with a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience has successfully demonstrated their ability to solve or resolve problems relating to Fall Protection and Rescue systems to the extent required by applicable national, regional, and local regulations.
- RESCUER: A person using the Rescue system to perform an assisted rescue.
- **RESTRAINT SYSTEM:** A collection of Fall Protection equipment configured to prevent the user from reaching a fall hazard. No free fall is permitted.
- **USER:** A person who performs activities while protected by a Fall Protection system.

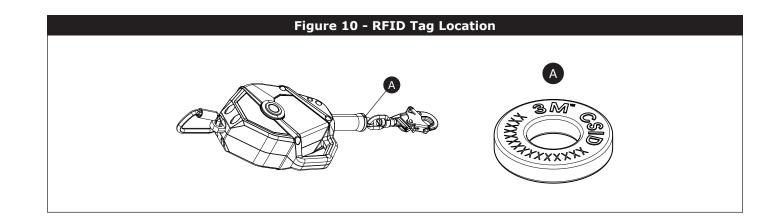


Figure 11 - Product Labels HO A В A 1 3M SALA B D 1 C 1 (C) Ē Ď J rer au-dessus de l'annea sal du harnais de l'utilisa Ε E H Smart Lock Smart Lock 3M.Com/FallProtection ^{Class} 1 1 1 1 Model No N° de Mode \triangle (4) (5) (6) 2 3 G 8 Overall Length: Longueur totale: Smart Lock Serial no: 7 i Class 1 1 CTO AVERTISSEMENT AVERTISSEMENT WARNING WARNING Discontinue use immediately! Reserve lifeline is deployed, return for factory service. www.capitalsafety.com USA: 800-328-6146 Cessez d'utiliser immédiatement! La corde d'assurance de réserve est déployée. Retournez pour un service en usine. www.capitalsafety.com Ι CAN: 800-328-6146 3M.com/FallProtection Verification In ANSI 2388 2 SALA **3M** SRD (SR TX1 IIII DONOTHEMORY THIS LABEL NE FASS RETIRES CONTENT 3 (1)NG / AVERTISSEMENT: J USE / UTILISATION 4 5. 5 INSPECTION: 6 100 ෩෯ 7 Rep pas Q RESERVE LIFELINE / CORDE D'ASSURANCE DE RÉSERVE: Insp for deniverant of reserve lifefont by fold extension line. If reserve femile (rim fixed to fidina) or

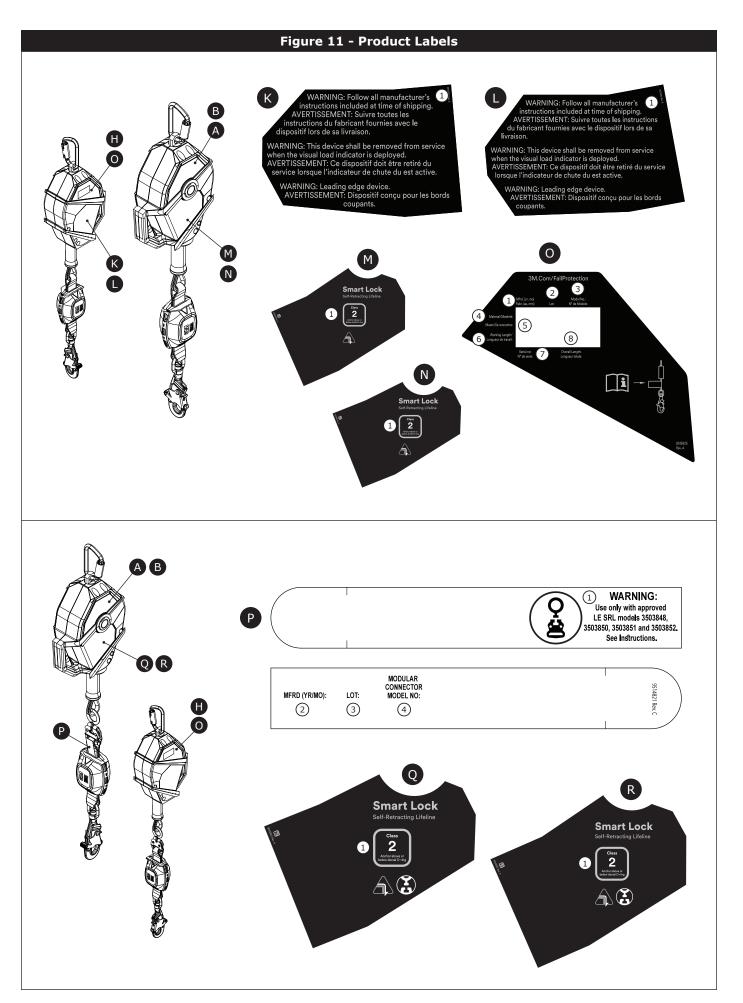


Table 2 – Inspection and Ma	intenance Log
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Model Number (Serial Number):

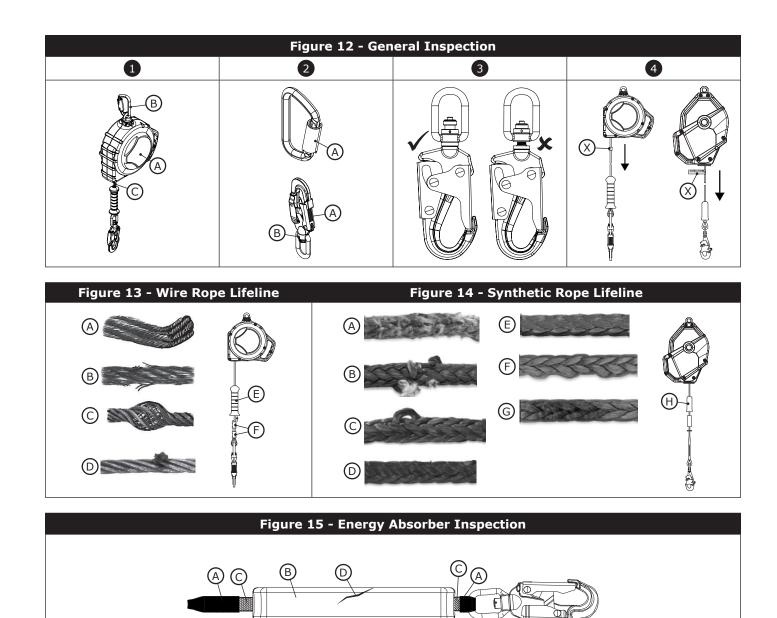
Date Purchased:

Date of First Use:

 \square This product must be inspected by the user before each use. Additionally, a Competent Person other than the user must inspect this equipment at least once each year.

Component	Inspection Procedure	Inspectic	on Result
Component		Pass	Fail
	Inspect for loose bolts and bent or damaged parts.		
	Inspect Housing (A) for distortion, cracks, or other damage.		
SRD - General (Figure 12.1)	Inspect the Swivel Eye (B) for distortion, cracks, or other damage. The Swivel Eye should be attached securely to the SRD, but should pivot freely.		
	The Lifeline (C) should pull out and retract fully without hesitation or creating a slack line condition.		
	Ensure device locks up when lifeline is jerked sharply. Lockup should be positive with no slipping.		
	Look for signs of corrosion on the entire unit.		
Connectors Figure 12.2)	Inspect all SRD connectors for signs of damage and corrosion. Verify that all connectors are working properly. Where present: Gates (A) should open, close, lock, and unlock properly; Swivel Eyes (B) should rotate without interference; and locking buttons and pins should function correctly.		
1odular Connector	If your SRD model includes a modular connector, verify that the connecting component secures properly to the modular D-ring of the SRD. The connecting component should open and close smoothly and should lock when secured to the modular D-ring.		
Swivel Snap Hook and Impact ndicator Figure 12.3)	Inspect the Impact Indicator. If a red band is shown and the swivel does not turn freely, then impact loading has occurred and the SRD must be removed from service. Do not attempt to reset the Impact Indicator. Return the SRD to an authorized service center for resetting.		
Reserve Lifeline Figure 12.4)	Inspect the reserve lifeline payout. Pull the lifeline out of the SRD until it stops. If a Warning Label or Red Band (X) is visible, the reserve lifeline is spent and the unit must be serviced by an authorized service center before reuse.		
Vire Rope Lifeline Figure 13)	Inspect wire rope for cuts, Kinks (A), Broken Wires (B), Bird-Caging (C), welding splatter, corrosion, chemical contact areas, or Severely-Abraded Areas (D). Slide the Lifeline Bumper (E) up and inspect the Ferrules (F) for damage. Replace the wire rope assembly if there are six or more broken wires in one revolution, or three or more broken wires in one strand in one revolution. Replace the assembly if there are any broken wires within 25 mm (1 in.) of the ferrules.		
Synthetic Rope Lifeline Figure 14)	Inspect rope for Abrasion (A), Cut Strands (B), Pulled Strands (C), Melting (D), Compression (E), Inconsistent Diameter (F), and Discoloration (G). Slide the Lifeline Bumper (H) up and inspect the area below for damage.		
nergy Absorber (Figure 15)	Verify that the integral energy absorber has not been activated. Verify that the Lifeline Cover (A) has not pulled out from the Energy Absorber Cover (B) on either end. None of the Energy Absorber Webbing (C) should be exposed. The Energy Absorber Cover should also be secure and free of Tears (D) or other damage.		
abels (Figure 11)	All labels are present and fully legible.		
all Protection Equipment	Additional Fall Protection equipment that is used with the product is installed and inspected per the manufacturer instructions.		

Inspection Type:	□User	Competent Person	Overall Inspection Result:	□ Pass	🗆 Fail			
Inspected By:			Date of Inspection:					
Signature:		Next Inspection Due:						
Additional Notes:								



GLOBAL 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 local laws, 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.

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