

**NORTH**

**WEB**

**RETRACTOR**

**FP0300 SERIES**

**INSTRUCTION MANUAL**

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**ENROULEURS**

**DE SANGLE**

**SÉRIES FP0300**

**GUIDE**

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**ENROLLADOR**

**DE CABLE**

**SERIE FP0300**

**MANUAL DE INSTRUCCIÓN**

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### **DEFINITIONS & EQUIVALENTS**

**Newton** - (N) - The unit of force which, when applied to one kilogram mass, would experience an acceleration of one meter per second per second.

**kiloNewton** - (kN) - 1,000 Newtons

**kilogram** (kg) - 1kg = 2.2 pounds

**NORTH**

# 1 INTRODUCTION

The NORTH FP0300 Series Web Retractor is designed to restrain workers from vertical falls while allowing them freedom of movement of up to 10 ft. (3 m). The FP0300 Series Web Retractor can be called a fall limiting device. The retracting feature eliminates tripping hazards while the inertia-locking mechanism arrests a fall within inches of activation. The retractor connects to the back D-ring of a full-body harness and must be attached to an approved fixed overhead anchorage point or to an approved NORTH Horizontal Cable/Lifeline/Rail System.

The NORTH FP0300 Series Web Retractors are lightweight devices that feed, as needed, 2" nylon webbing for applications where the worker will remain in close proximity to the work station. As the worker moves closer to the device it automatically retracts the exposed webbing. In the event of a fall, the retractor will lock and suspend the worker until either self-rescue or outside assistance becomes available. The FP0300 Series Web Retractors come in standard web lengths of 10 ft. (3 m) with an energy absorber and 8 ft. (2.4 m) without an integral shock absorber.

The FP0300 Series Web Retractors meet:

- CSA Standard Z259.2.2-98, Self-Retracting Devices for Personal Fall Arrest (Type 1 Devices) (Canada)
- ANSI Standard Z359.1-1992, Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components (USA)

## NORTH FP0300 SERIES WEB RETRACTORS - AVAILABLE CONFIGURATIONS\*

Item No.	Connecting Hardware	Energy Absorber Equipped	Applicable Standards
FP0301	Self-locking karabiner	No	CSA/ANSI
FP0302	Forged rebar hook	No	CSA/ANSI
FP0303	Double locking snap hook	No	CSA/ANSI
FP0304	Swivel snap hook	No	CSA/ANSI
FP0304E	Swivel snap hook	Yes	CSA/ANSI
FPS0305P	Belt swivel & karabiner	No	CSA/ANSI
FPS0305PE	Swivel plate, snap hook & karabiner	Yes	CSA/ANSI

\*Offering subject to change without notice

### 1.1 IMPORTANT INFORMATION

This Operating and Instruction Manual contains important information and must be completely read and understood by all persons who may use and maintain this Fall Protection Equipment.

The Web Retractor must, therefore, only be used by persons who understand the instructions contained in this manual and have been adequately trained in its use and inspection.

All the warnings and product compatibility requirements listed in this manual must be adhered to in order to ensure that the Web Retractor functions properly.

### 1.1.1 TERMINOLOGY

Warnings, cautions and notes used in this manual have the following significance:



Procedures and techniques which, if not carefully followed, will expose the user to the risk of serious injury or death.

#### CAUTION

Procedures and techniques which, if not carefully followed, will result in damage to the equipment.

#### NOTE

Procedures and techniques that are considered important enough to emphasize.

#### Energy Absorber

A component or element that is included as an integral part of an Web Retractor that dissipates energy and limits deceleration forces during fall arrest.

#### Integral

Not removable from the component, subsystem, or system without mutilating elements or using a special tool.

#### Qualified Person

OSHA defines a Qualified Person as one with a recognized degree or professional certificate and/or extensive knowledge and experience in the subject field who is capable of design, analysis, evaluation and specifications in the subject work, project or product.

#### Self-retracting lanyard - Type 1 (SRL)

A self-retracting device which is typically short in working length (1.5 to 3.0 m or 4 to 10 ft. per CSA Z259.2.2-98). The SRL is typically too heavy to attach to the body support. Few are repairable after a fall incident. Some are subject to a manufacturer's service schedule. The FP0300 Series falls into the category of non-repairable and non-serviceable.

#### Soft Pak

The Soft Pak Energy Absorber is a tear-web unit in which the tearing action of the web reduces forces to 4 kNs. (900 lbs.) on deployment. It is made of synthetic tear web with a synthetic web back-up lanyard.

## 1.1.2 GENERAL WARNINGS



1. Before using this equipment, read these instructions carefully and completely. They must be understood and followed to obtain fall protection from this equipment. Failure to observe the limitations, cautions and warnings in these instructions can cause a loss of protection and an exposure to the risk of a fall resulting in serious injury, disability or death.
2. Each Web Retractor has a design working load of 300 lbs. (136 kg). Attach to one person only. Do not use any device for any purpose other than is intended. The Web Retractor must be attached directly to the rear dorsal D-ring of the full-body harness.
3. Do not work above the anchorage for any reason. Do not move laterally any more than 45° from the anchor point. When working laterally to the anchorage, a swing fall may occur causing impact with an obstruction.
4. Never pre-engage the locking mechanism or knot the webbing to use as a restraint tool. A potential swing fall hazard would then exist. (Figure 1)
5. Never use a Web Retractor where surfaces subside, i.e. sand, gravel, grain, or powders. The retractor may not sense that you are falling and you may sink below the surface and suffocate.
6. In every situation where fall arrest systems are used, an appropriate rescue plan must exist so that a worker can be retrieved in the event of a fall. This requires that competently trained personnel with appropriate rescue equipment are available to retrieve the worker before supplemental injuries occur.
7. Do not allow the web material to run over any sharp edges during use. This could cut the webbing should a fall occur.
8. Worn, corroded or damaged devices must be removed from service. Any equipment which has arrested a fall or shows signs of wear, corrosion or deterioration must be removed from service.
9. Do not reuse a Web Retractor if it has arrested a fall. Remove from service immediately and discard or destroy.
10. Always be aware when working near electrical power lines and sources. Electrical current could travel through the components and cause injury or death
11. Not for use on order pickers, lift trucks or high stackers unless attached to the back D-ring of a full-body harness.

## 1.3 USER REQUIREMENTS

- 1.3.1 All users of fall protection equipment must be in good physical health, must not have a medical history of conditions that could be aggravated by a fall, must be mentally fit, and must not be under the influence of alcohol or drugs.
- 1.3.2 Anchor strength should be reviewed by a qualified person.

### NOTE

The general instructions in this manual may be supplemented by instructions issued with specific equipment. Those instructions are to be followed in addition to the general instructions contained here. The Series FP0300 Web Retractors come with installation and user instructions. They should be stored in a safe place for future reference once adequate training is completed.

## 2 USER INSTRUCTIONS AND INFORMATION

### CAUTION

The FP0300 Series Web Retractor is only part of a complete fall protection system. Always use it with compatible products from NORTH or as recommended by a Qualified Person.

#### 2.1 PRE-USE INSPECTION

- 2.1.1 Test the locking mechanism on the retractor by pulling sharply on webbing hardware. Relieve the tension to release the locking mechanism. Remove from service if webbing does not lock and recoil properly.
- 2.1.2 Check the attachment hardware for proper function. Inspect for wear, corrosion or any damage that could impair proper performance.
- 2.1.3 For units equipped with a Soft Pak, inspect the tear web fabric for any signs of tearing or elongation. Refer to the label for original length if in doubt. If there is any elongation or tearing the self-retracting lanyard is not fit for service.
- 2.1.4 Inspect the webbing for cuts, tears, fraying, burns or discoloration.

#### 2.2 INSTALLATION

- 2.2.1 Before installation ensure that you are not exposing yourself or the Web Retractor to any fall hazard. Ensure that there is no individual working below the point of installation.
- 2.2.2 Attach the retractor to an approved anchorage point above the head of the worker.
- 2.2.3 Position the retractor and attach a self-locking karabiner to the approved anchorage point. Ensure that the karabiner is locked.
- 2.2.4 Work directly under the anchorage point to prevent a swing fall. Always check for obstructions over head and below the work area. Ensure that the webbing can not become entangled in any moving objects.
- 2.2.5 Never install the retractor where the webbing passes over sharp edges, can get entangled, or where its free passage is impeded.
- 2.2.6 Ensure that the space under the working area is free from obstruction or collision that may be a potential hazard under fall conditions.

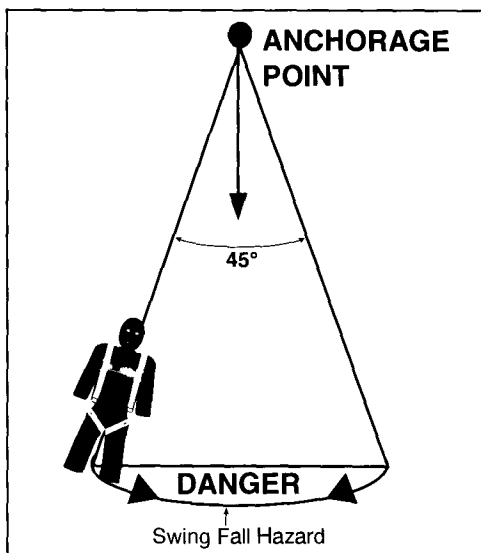


FIGURE 1

### **3 USE**

- 3.1 Attach the connector at the end of the web line to the rear D-ring of the full-body harness.
- 3.2 Visually confirm the connector is properly locked.
- 3.3 Never work above the level of the web retractor .
- 3.4 Never run or jump while attached to the self-retracting lanyard, as it will engage the braking mechanism and could possibly instigate a fall hazard.



### **WARNING**

Do not use these devices in areas where they can get wet. Moisture on the web material may cause it to swell. This swelling could hinder the web retractor from functioning properly.

### **4 SERVICE LIFE**

- 4.1 Although web retractors are designed to provide years of trouble free service the type of atmosphere they are used in, or prolonged web exposure to the ultra violet rays of the sun or moisture may impact the overall service life. For example, use near chemical or paint sprays or failure to allow web to retract when not in use will reduce the web's life.
- 4.2 Immediately remove the web retractor from service and discard if it has been used to arrest a free fall and the Soft Pak shows signs of deployment.
- 4.3 Immediately remove the retractor from service and return it to a NORTH approved servicing depot for inspection if the device has failed a visual inspection for any reason.

### **5 INSPECTION AND MAINTENANCE**

#### **5.1 INSPECTION**

All fall protection equipment must be inspected before and after each use and after being subjected to an impact force. The inspection of the housing, hardware, and entire length of the lanyard web material, should include but not be limited to:

- 5.1.1 Check for wear and tear in the housing, webbing and connecting hardware.
- 5.1.2 In the webbing and Soft Pak Energy Absorber check for loose stitching, broken threads, cuts or burns, hard spots, smooth spots, dry spots, discoloration, or other signs of chemical damage. Examine the webbing visually for cuts, signs of abrasion or fraying.
- 5.1.3 Any elongation of tear web in the Soft Pak requires that it be removed from service as deployment has been initiated.
- 5.1.4 Ensure that the connectors all have reactive latch springs, good pivot pins and that they close securely.
- 5.1.5 Ensure that the connectors are free of corrosion, dents and other deformation. There must be no obstructions to movement of swivel and latches.
- 5.1.6 There must be no visible sign of the snap hook impact at the point where the swivel attaches to the snap hook. If equipped with a load indicator, there must be no indicator showing at the time of inspection.
- 5.1.7 Check the braking mechanism and ensure it locks off properly during the entire length of the web lanyard.

If any of the above is observed, the Web Retractor should be removed from service and referred to a North distributor for further instruction.

- 5.1.8 The housing must be free of cuts, cracks or other signs of deformation.
- 5.1.9 All labels must be clear and legible.

**! WARNING**

An energy absorber (Soft Pak) showing torn stitches in the tear web assembly or elongation of webbing must be removed from service and referred to a North distributor for replacement and self-retracting lanyard re-certification. Either condition indicates partial deployment of the energy absorber.

**5.2 MAINTENANCE**

**5.2.1 LOCKING SNAP HOOKS AND/OR KARABINERS**

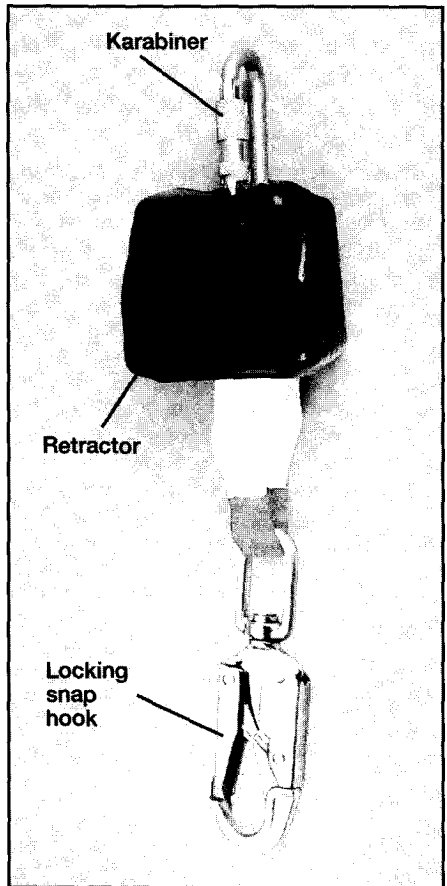
- 521.1 Clean with a cloth a warm soapy water. Allow to air dry.
- 521.2 Lubricate sticky springs with a small amount of light machine oil. Always try to avoid getting the oil on the web portion of the device.

**5.2.2 WEBBING AND SOFT PAK**

- 522.1 Clean with warm soapy water and rinse with plenty of clean water. Allow to air dry.
- 5.2.2.2 If splashed with paint, immediately wipe away as much paint as possible with a clean dry rag. Ensure no hard spots form when any remaining paint dries.

**6 STORAGE**

- 6.1 Always store in a cool dry place away from chemicals, water, direct sun light and sources of heat and vibration.
- 6.2 Always ensure web section is completely retracted before storage. This is especially important when retractors are left in place outside as components of a permanent fall protection system.





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### **DÉFINITIONS ET ÉQUIVALENCES**

**Newton** - Unité de force, correspondant à une accélération d'un mètre à la seconde par seconde communiquée à une masse d'un kilogramme.

**Kilonewton (kN)** - 1 000 newtons

**Kilogramme (kg)** - 2 205 livres

# **NORTH** North Safety Products

[www.northsafety.com](http://www.northsafety.com)

## **USA**

**Cranston:**  
1-800-430-4110

2000 Plainfield Pike  
Cranston, RI 02921  
Tel: (401) 943-4400  
Fax: (401) 275-2618  
Toll free fax: 1-800-572-6346

Email: [marketing@northsafety.com](mailto:marketing@northsafety.com)

## **CANADA**

### **Eastern & Atlantic Canada**

1-888-212-SAFE (7233)

### **Central Canada**

1-888-316-SAFE (7233)

Toll free fax:  
1-888-NORTH SP  
(667-8477)

### **Western Canada**

1-800-661-3638

### **Montreal**

10550 Parkway Blvd.  
Anjou, Quebec  
H1J 2K4  
Tel: (514) 351-SAFE  
(7233)  
Fax: (514) 355-SAFE  
(7233)

### **Toronto**

Sales Support  
26 Dansk Court  
Toronto, Ontario  
M9W 5V8  
Tel: (416) 675-2810  
Fax: (416) 675-6898  
Toll free phone: 1-866-272-2733  
Toll free fax: 1-866-640-9415

### **Edmonton**

6303 Roper Road  
Edmonton, Alberta  
T6B 3G6  
Tel: (780) 437-2641  
Fax: (780) 436-0048

Email: [marketing@northsafety.ca](mailto:marketing@northsafety.ca)

## **EUROPE & MIDDLE EAST**

### **The Netherlands**

Anodeweg 1  
4338 RA Middelburg  
The Netherlands  
Tel: +31(0)118 656400  
Fax: +31(0)118 627535

### **United Kingdom**

Tel: +44(0)170 669 3800  
Fax: +44(0)170 669 3801

### **Germany**

Tel: +49(0) 40611775-0  
Fax: +49(0) 40611775-10

### **Scandinavia**

Tel: +46(0) 36377241  
Fax: +46(0) 36377629

### **France**

Tel: +33(0) 442 240264  
Fax: +33(0) 442 609530

Email: [marketing@northsafety.nl](mailto:marketing@northsafety.nl)

## **CHINA**

Tel: 86-10-67892289/90/91  
Fax: 86-10-67892292

Email:  
[marketing@northsafety.cn](mailto:marketing@northsafety.cn)

## **ASIA & PACIFIC**

Tel: 61-3-9337-9111  
Fax: 61-3-9337-2808

Email:  
[marketing@northsafety.com](mailto:marketing@northsafety.com)

## **LATIN AMERICA**

Tel: (954) 322-1691  
Tel: (514) 351-7233  
Fax: (514) 351-2645

Email:  
[marketing@northsafety.ca](mailto:marketing@northsafety.ca)

## **AFRICA**

Tel: +2711 9747062  
Fax: +2711 9747089

Email:  
[marketing@northsafety.co.za](mailto:marketing@northsafety.co.za)

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Rev. 5 (05/07)  
F/P Manual 0300