



FDU 200 Descender

User Instruction Manual



The Ferno FDU 200 is a friction control, double stop descender, used for personal rescue, emergency escape, rescue operations or specialised rope work. This product is for expert use only.

Specifications

Designation / Purpose	<ul style="list-style-type: none">• Double stop descender to ensure a safe, smooth descent during operations when working at height, rope access and rescue scenarios.• Used as a component of Personal Protection Equipment (PPE) for inclusion within a rope access and/or rescue system.
Working Load Limit (WLL)	<ul style="list-style-type: none">• 400 kg (2 person rescue load)
Compatible Rope	<ul style="list-style-type: none">• Use only with 11 mm static rope that is EN1891:1998 Type A and AS/NZS 4142.3:1993 compliant• The device has been tested with National Braiding Industries (Narrowtex) Arresta Rope and Donaghy's Rescue Response and Response XT rope.
Markings on Device	
Model number	<ul style="list-style-type: none">• FDU-200
Certification	<ul style="list-style-type: none">• AS/NZS 4488.1:1997
Labelling (Front)	<ul style="list-style-type: none">• Only to be used with 11 mm rope• Instructions for reeving rope through device• Working Load Limit
Labelling (Back)	<ul style="list-style-type: none">• Serial Number• Date of Manufacture (DOM)

Read this Manual and
Retain for Future Reference

FERNO®

Users' Manual

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1 - SAFETY INFORMATION

Ferno Customer Service

For ordering, product assistance or general information:

AUSTRALIA

Telephone (Toll-free)	1800 804 647
Telephone	(07) 3881 4999
Fax	(07) 3881 1125
Email	info@ferno.com.au
Internet	www.ferno.com.au

ALL OTHER LOCATIONS

For assistance or information, please contact your Ferno distributor. If you do not have a Ferno distributor, please contact Ferno Customer Service:

Ferno Australia, 11 Johnstone Road,
Brendale, Queensland 4500, Australia

Telephone	Country Code +61 7 3881 4999
Fax	Country Code +61 7 3881 1125
Email	info@ferno.com.au

Disclaimer

This manual contains general instructions for the use, operation and care of this product. The instructions are not all-inclusive. Safe and proper use of this product is solely at the discretion of the user. Safety information is included as a service to the user. All other safety measures taken by the user should be within and under consideration of applicable regulations and local protocol. Training on the proper use of this product must be provided before using this product in an actual situation.

Retain this manual for future reference. Include it with the product in the event of transfer to new users. Additional free copies are available upon request from Customer Service.

1.1 Warning

Warning safety alerts indicate a potentially hazardous situation that, if not avoided, could result in injury or death.

 **WARNING**

Working at height, rope access and technical rescue procedures require special skill and are potentially dangerous. Do not attempt such activities unless you have received professional instruction and training.

Modifying the product can cause injury and damage. Do not alter, modify or tamper with the device.

Improper parts and service can cause injury or death. Use only Ferno parts and Ferno-approved service on the product.



Device Serial Number: _____

1.2 Notice

Notices emphasize important, but not hazard-related information. Failure to follow Notices could result in product or property damage.

NOTICE

Consult with AS/NZS 4488.2:1997 for both requirements and guidance relating to rigging and use of industrial rope access systems, plus the selection and maintenance of components.

1.3 Glossary

These symbols appear in the user instructions.



Anchor Point

1.4 Product Life Span Statement

The actual life span of the FDU 200 cannot be exactly predicted, as it is influenced by many factors including but not limited to frequency and intensity of use, environment, weather, storage conditions, etc.

As a general guide, the life span of the device is 10 years from initial date of service. Each operation of the unit should be recorded in a log book to determine usage of the product during its lifetime.

If there is any doubt about the safety of FDU 200, do not use it and contact your safety representative or Ferno.

It is always recommended to review the manufacturer's instructions as a life span may be restricted due to application or applicable product standards.

2 - INSTRUCTIONS FOR USE

2.1 General Safety Instructions

1. Activities involving the use of this device are potentially hazardous. Before using the FDU 200, read and understand the user instructions and familiarise yourself with its capabilities and limitations.
2. Do not use the FDU 200 as a back-up belay device where a potential fall can be exerted or sustained on the device.
3. Ferno advocates the use of a safety/secondary rope that is connected to the operator as a safety line. This line must have a back-up device attached that is capable of sustaining and absorbing any impact forces in event of a fall due to the failure of the primary unit. The back-up device must either be EN, ANSI, NFPA or AS/NZS approved for such applications.
4. The safety/back-up line and point of attachment to the operator must be above the level of the FDU's primary attachment point on the operator's harness.
5. Do not attach the safety/back-up line to the same anchor point as the FDU line/rope.
6. Ensure rope is compatible with the FDU 200 and is appropriate for the task. Rope friction may vary depending on the rope's construction and effects of environmental conditions.
7. Ensure the operator is in good physical and mental health and is trained and competent in the use of the device. The operator must employ all relevant PPE for the task prior to commencing working at height. PPE may include, but is not limited to a safety harness, lanyard, helmet, gloves and appropriate foot wear.
8. Ensure you have a rescue plan in place prior to working at height or confined space. A rescue plan is mandatory and the operator and all workers involved in the task must be aware of it prior to commencing work.
9. Always ensure anchor points are positioned so as to avoid a pendulum effect during a fall which may cause body contact with structures or machinery below. The maximum angle from the anchor point should not exceed 15° either side of the centre of the anchor point.

2.2 Before Each Use

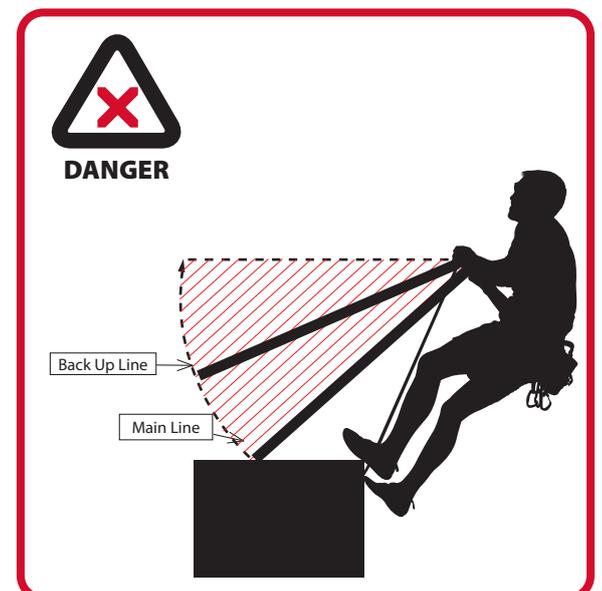
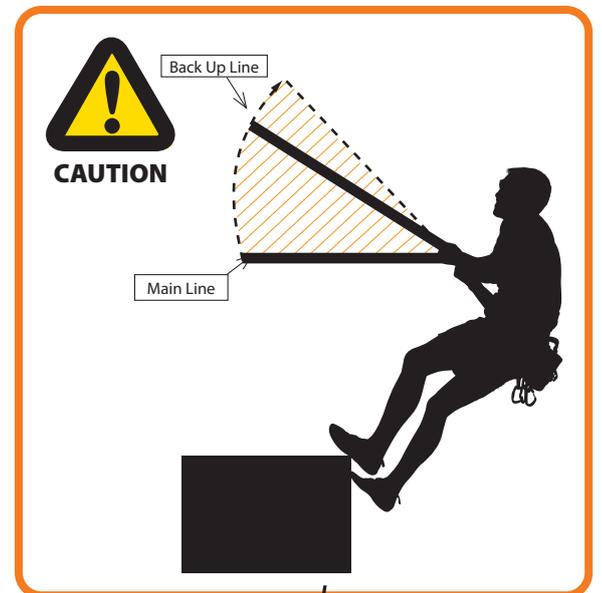
The product should be inspected by a competent person before and after each use to ensure it functions correctly and all components are damage free. A checklist is provided below as a guide that may be used in conjunction with your approved workplace protocols.

Refer any signs of deterioration to a competent person for a decision on the safety and serviceability of the product. If in doubt, tag it out!

Pre-Use and Periodic Inspection Checklist

Instruction Label	Pass	Monitor	Fail
Label is intact and securely in place	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Label is legible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Complete Device	Pass	Monitor	Fail
Free from cracks and burrs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Free of grease, grit and sand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handle	Pass	Monitor	Fail
Intact and securely in place	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Moves freely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Handle grip is intact and undamaged	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

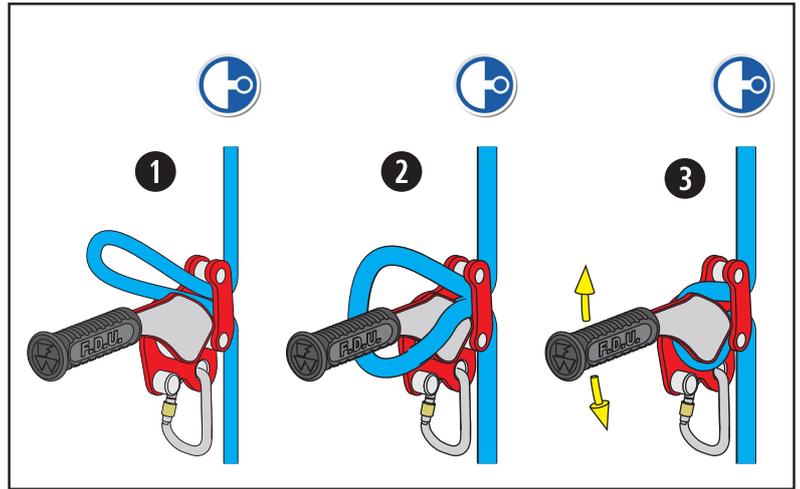
ANCHOR POINT PLACEMENTS



2 - INSTRUCTIONS FOR USE

2.3 Setting up the FDU 200

1. Pass a bight of rope between the two fixed posts adjacent to the cam.
2. Pass the bight of rope over the operating lever/handle.
3. The operating lever/handle may need to be moved so that the rope can be inserted between the lever and fixed posts.
4. Once reeved, connect the FDU 200 to the front fall arrest or front limited free fall attachment point on the operator's harness. Ensure that anchor points are rated at 12kN or more.



3 - INSPECTIONS

3.1 Operator Inspection

Each user should be trained in the safe use and inspection of the product. The FDU 200 should be inspected by a competent person before and after each use to ensure it is functioning correctly and all components are safe to use.

An inspection check list is provided on page 3.

3.2 Periodic Inspection

A full periodic inspection should be conducted at least every 12 months by a competent person, or more often depending on frequency of use, environmental conditions or if your organisation's protocols dictate. Re-inspect the product after any exceptional event. Refer to the inspection check list on page 3.

If the FDU 200 is exposed to harsh chemicals or hazardous atmospheres, the User should consult with Ferno Australia to determine if the unit is suitable for continued use.

Periodic inspections should be recorded and kept in the product's Inspection and Maintenance log. An example is provided below.

It is recommended to tag the device with the date of its next inspection.

4 - MAINTENANCE & STORAGE

4.1 Cleaning and storing the FDU 200

1. Wash the unit with warm water and soft detergent soap. Rinse with clean water.
2. Towel dry or air-dry the unit in a dry, shaded and well ventilated area. Do not use additional heat sources or blowers to dry the unit.
3. Once dry, store the FDU 200 in a protective pouch or bag in a clean, dry, area away from direct sunlight, chemicals and corrosive elements.

4.2 Maintenance

1. Any burrs or sharp edges sustained during field use should be removed with a smooth emery cloth so the burrs or sharp edges do not damage rope.
2. If the handle does not rotate freely and feels sticky or gritty, it must be removed from service and repaired by Ferno Australia or an authorised service agent.

INSPECTION AND MAINTENANCE RECORD

SUPPLIER			
FDU MODEL #		MANUFACTURE DATE	
SERIAL #		COMMISSIONED DATE	

DATE	INSPECTED BY	SIGNATURE	DETAILS	NEXT INSPECTION