

Tractelift™ Type II*

Adjustable Pulling Force Climb/Decent Assist for vertical ladders Fixed Motor and Detachable Control Panel

Operating Manual



*Patent N°: US12/78259

Tractelift™ Type II








Adjustable Pulling Force Climb Assist for vertical ladders
Fixed Motor and Detachable Control Panel

Operating Instructions

Contents

1	General Warning	4-5
2	Technical data	6
3	Description	7
4	Personal protection equipment	9
5	Using the belt grab	11
6	Using the Tractelift™ Type II for ascending	13-14
7	Using the Tractelift™ Type II for descending	14
8	Out of service	14
9	Troubleshooting	15
10	Tractelift™ Type II with detachable control panel	16-17
11	Labels	18-19
12	Maintenance	20
13	Warranty	20
14	Inspection and logbook	21-22
15	Annual Inspections	23
16	Regular Safety Inspection	24-26
17	Inspection Checklist	27

Explanation of Symbols used in this manual

<u>Safety advices</u>			
Symbol	Code Word	Meaning	Possible damage after noncompliance
	WARNING	IMMEDIATE or possibly imminent danger:	Fatal or serious injuries!
	WARNING	IMMEDIATE or possibly imminent danger from Hazardous electric voltage:	Fatal or serious injuries!
	CAUTION	Possibly dangerous situation:	Minor Injuries to persons!
<u>Other advices</u>			
	Note	Possibly dangerous situation:	Damage to equipment or its surroundings
	Important	Useful tips for best operation	none
<u>Regulations</u> (without code word)			
	Information for written implementation / documentation		
		Instruction to wear Personal Protection Equipment (PPE)	

Information related to these instructions

Date of issue

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Copyright

The manufacturer holds the copyright of this installation and maintenance manual.

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GENERAL WARNING

READ THIS GENERAL WARNING FIRST

This warning is your share or duties for achieving safety.

YOUR DUTY TO UNDERSTAND AND COMPLY

1. It is the responsibility of the operator and their employer to strictly read and conform to the instructions in this manual.
2. It is imperative for safety and efficiency of operations that this manual be read and **FULLY UNDERSTOOD** by the operator before using the Tractelift™ Type II. **ALL INSTRUCTIONS** contained herein must be carefully and strictly **FOLLOWED**, including applicable Tractel® safety guidelines.
A copy of this manual must be available the operators at all times. Manual is to be posted in each location where the system is used.
3. Should you hand over a remote, under whatever conditions, to any party operating out of your control, you must provide a clean copy of this manual and draw the other party's attention that strictly following all the instructions therein is a matter of life or death.
4. Use of the Tractelift™ Type II may be only carried out by persons, who are trained with the equipment, and whose weight is **minimum 102 lbs (51 kg) by using the Blue Remote and minimum 160 lbs (80 kg) by using the Red Remote**.
5. User must have received instruction by an approved Tractel® trainer to perform this task.
6. **First time users should test the remote at the lowest setting to gain a comfort level of the pulling system, before adjusting to the users current weight.**
7. **Never set the remote to a higher weight than the current user weight.**
8. **The Tractelift™ Type II does not protect against the hazard of falling! During climbing/descending the ladder, personal protection equipment must be used:**
Harness with appropriate life line fall arrester used on a fall protection system (ANSI Z359, CSA Z259 and PPE directive 89/686/CEE).
9. **Materials transport with the Tractelift™ Type II is not allowed.** It shall only be used for assisting persons, when climbing or descending a vertical ladder.

10. Users must be familiar with the local safety and health regulations, as well as with the instructions of all personal protection equipment in use, and have received appropriate instructions.
11. If the task is performed by employees, the contractor has to follow the requirements of the relevant safety and health regulations.
12. Only one person allowed to be connected during use! Before use, you must **READ** and fully understand the complete operating instructions!
13. Never use a Tractelift™ Type II which has been modified.
14. Tractel® carries no liability for damage due to non-intended use of the Tractelift™ II, or due to retrofits and alterations on the equipment or where non-original spare parts are used that the company has not approved in writing.

YOUR DUTY TO INSPECT AND MAINTAIN

15. Keep this manual available at all times for easy reference whenever required. Extra copies are available from Tractel®.
16. Carefully take notice of all the labels and nameplates affixed to the Tractelift™ Type II (see page 18). Never operate the Tractelift™ Type II if any label or nameplate, normally fixed on the Tractelift™ Type II is obscured or missing. Tractel® will supply extra labels and nameplates on customer's request.
17. The Tractelift™ Type II has to be maintained/inspected by a competent person, either on demand, or at the latest after 12 months. The result of the annual inspection has to be filed in the log-book.
18. A careful and regular inspection of the Tractelift™ Type II, is part of the safety requirements. If you have any questions, call Tractel®. (see back cover)
19. Do not use a Tractelift™ Type II with, damaged assist belt.
20. Do not attempt to lengthen or repair the assist belt.

YOUR DUTY TO TRAIN AND CONTROL PEOPLE

21. An operator must not be assigned to a hosting job or to rigging for the job, if the person is not:
 - a) mentally or physically fit for that purpose
 - b) competent for the job to be performed
 - c) familiar with all application safety rules and requirements
 - d) trained for working under the above requirements
22. Never disassemble the Tractelift™ Type II by yourself or by your staff. Except for the operations described in this manual, the maintenance of the Tractelift™ Type II, as well as disassembly and repair, must be exclusively done by qualified repairers authorized in writing by Tractel® Inc. for USA or Tractel® Ltd. for Canada. Tractelift™ Type II spare parts in accordance with the serial number of each machine must be exclusively utilized. No substitutions are allowed.
23. Never let the Tractelift™ Type II and other equipment of a system be managed or operated by a person other than those authorized and assigned to the job.
24. Training operators must be set up by a Tractel approved competent person, or of its technical consultant. According to the working conditions, prior to putting the equipment into operation, contact Tractel® Inc. for the USA or Tractel® Ltd. for Canada. (see back cover)
25. Every job must be placed under the control of a person having the required competence and the authority for checking that all the instructions prescribed by this manual be regularly and efficiently carried out.

YOUR DUTY OF SAFETY BEYOND THE TRACTELIFT™ TYPE II

As being only one component of the system, the Tractelift™ Type II can contribute to the required SAFETY, IF:

26. It is fitted on and with compatible equipment.
27. Other components meet the requirements of the applicable safety regulations and are of the proper quality, and assembled to form a safe system.
28. Every support is stable, sufficiently strong, according to the load either static and dynamic.
29. Supporting structure provides the required resistance to every load to be applied either static or dynamic, during operating the equipment.
30. All the requirements in strength and resistance are obtained with the necessary safety factor

(see regulations and professional standards).

31. All the calculations, design and subsequent work necessary to the above requirements have been made by a competent person on the basis of proper technical information regarding the site.
32. Do not use the Tractelift™ Type II or climb the ladder during periods of severe weather or during electrical storms.

YOUR DUTY TO AVOID TAKING CHANCES

33. Tractelift™ Type II MUST NOT be used in explosive atmosphere. It has not been designed for such an application.
34. The Tractelift™ Type II control panel is factory set - no adjustments are necessary or allowed. Any tampering with the factory settings voids the warranty and Tractel is not liable for the consequences of this tampering.
35. **When climbing the internal ladder you must maintain 3-points of contact, two hands and a foot, or two feet and a hand on the ladder at all times. You must keep your body near the middle of the rung and always face the ladder while climbing (see diagram). OSHA 3246-09N-05. Using improper and unsafe climbing techniques such as sliding or Peter Panning the ladder during decent can have a negative effect on the motor that will void the warranty of the system.**
36. **The tractelift system should never be used in the "OFF" mode. The Tractelift system must be "ON" for use in both directions up and down, with the correct direction selection done form the remote keys. The correct direction must be selected on the wireless remote before climbing up or down.**

AN ULTIMATE RECOMMENDATION

In order to keep improving its products, Tractel® reserves its right to apply any modification at any time to the product described in this manual.

The companies of The Tractel® and their appointed repairers will supply on request their documentation regarding other Tractel® products available: Lifting and pulling equipment and their accessories, site and facade access equipment, handling equipment, safety devices for load, personal fall protection equipment, load and tension indicators, etc.

Go to **www.tractel.com**

The Tractel® network can supply an after sales and periodic inspection service.

2. Technical Data

Model: TRDC

User Weight:	Standard:	approx. 102 lbf to 160 lbf (51 kg to 80 kg) (Blue Remote)
	Option:	approx. 160 lbf to 250 lbf (80 kg to 125kg) (Red Remote)
Pulling Force:	Standard:	approx. 60 lbf to 100 lbf (30 kg to 50 kg) (Blue Remote)
	Option:	approx. 110 lbf to 150 lbf (55 kg to 75 kg) (Red Remote)
No load round belt speed:		max. 120 ft/min / 37 m/min
Belt Diameter:		12.5mm (approximately 0.5")
Temperature range:		-31 °F to +104 °F / -35 °C to +40 °C /
Power supply:	Standard:	110 V - 1 PH, 50/60 Hz, (3/4 HP) (UL/CSA)
		220 V - 1 PH, 50/60 Hz, (3/4 HP) (EU - 2006/42/EC)
Wireless:		NA - FCC part 15, EU 300-328, EU 300-440 class 2
Duty cycle:		100 %
Insulation class:	Standard:	IP 56
Sound Levels:		Sound levels do not exceed 70 db

Tractel® is a ISO 9001:2008 Company

1.1 User Remote Control

- The wireless radio uses a 2.4 GHz frequency and is compliant with, FCC CFR47 Part 15 (NA), EN300-328, EN300-428 class 2
- Plastic case with rubberized cover (blue for 102-160 lb (51 - 80 kg), red for 160-250lb (80 kg to 125 kg)
- Battery compartment with cover LCD screen, background lit, to indicate weight selected, operator is able to increase or decrease preset in 10 lb (5 kg) increments.
- 3 tactile buttons for Stop, Up and Down.
- LED's to indicate Up, Down, Low Battery and E5 error code, indicates the emergency stop button has pressed.
- Individual code for each remote, disables other remotes to command system at the same time
- Remote to enter "sleep" mode if inactive after 5 minutes.
- Battery compartment for 2 AA batteries (included). See page 14 Item 7 and Fig. 16 for replacing the batteries.
- Stainless steel plate with 2 eyelids for mounting of the remote (top and bottom part of the remote)

User Remote Control

Low battery indicator (red)

Battery compartment (uses 2 AA Alkaline or rechargeable batteries)

Steel Plate

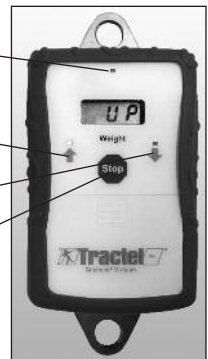


Illuminated LCD display

Direction key - Increase weight capacity arrow (UP displayed)

Direction key - Decrease weight capacity arrow (dn displayed)

Two models based on user weight:
Blue 102 to 160 lbs. (51 - 80 kg)
Red 160 to 250 lbs. (80 - 125 kg)



3. Description of the Tractelift™ Type II

3.1 General

This manual is valid for Tractelift™ Type II with remote only.

3.2 Principle

The Tractelift™ Type II alleviates persons climbing a vertical ladder (Fig. 1) with adjustable pulling force approximately 60% of the person's weight entered on the remote control. Two user remotes are available, Blue rubber casing for users between 102 and 160lbs. (51 - 80 kg), and a Red rubber casing for users between 160 and 250lbs. (80 - 125 kg).

The drive comes with a remote control that is directly connected with a Carabineer and a belt grab to the pulley belt. The other end of this remote is attached to the climbers approved safety harness with another Carabineer.

Use of the system is described in Section 5 page 11.

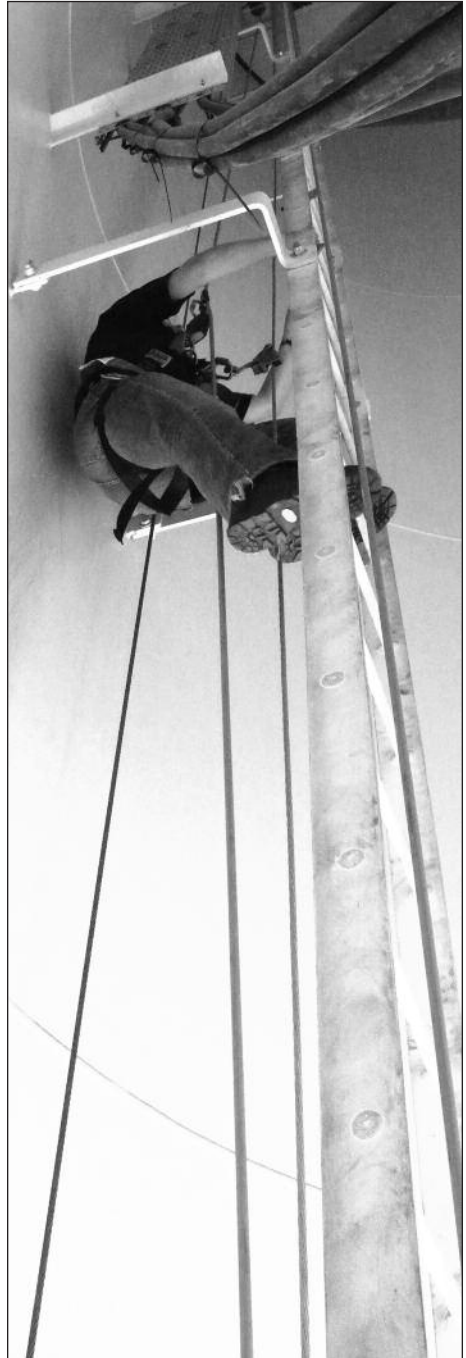


For Safety the Climber must also be attached to an independent fall protection system supplied on the ladder. After being attached to both then only the climber can proceed with the assisted climb.

When climbing the internal ladder you must maintain 3-points of contact, two hands and a foot, or two feet and a hand on the ladder at all times. You must keep your body near the middle of the rung and always face the ladder while climbing (see diagram). OSHA 3246-09N-05.

Using improper and unsafe climbing techniques such as sliding or Peter Panning the ladder during decent can have a negative effect on the motor that will void the warranty of the system.

Fig. 1



3.3 Drive and Control

At the lower end of the ladder (Fig. 3), a motor that drives pretension endless round belt by means of a driver pulley. Shown with and without the removable control box in place.



Fig. 2

The continuous welded round belt, made of special synthetic material (\varnothing 1/2 inch / 12,5 mm) runs on the driver pulley of the motor and a diverter pulley at the upper end of the vertical ladder (Fig. 2).

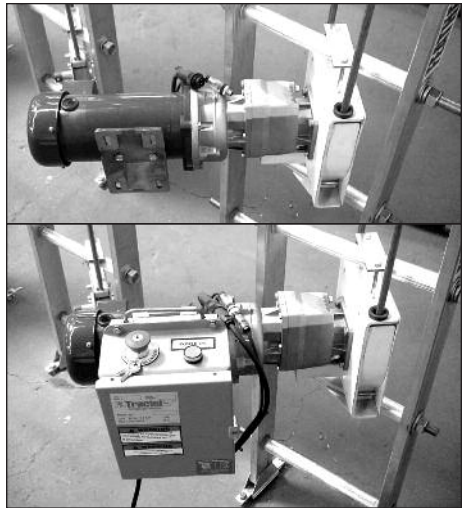


Fig. 3

3.4 Connection to the round belt

The connection to the round belt is made by a belt grab, fixed to a locking carabiner, with the top of the remote attached, on the bottom side of the remote a second carabiner is attached which attaches to the users safety harness. (Fig. 4).

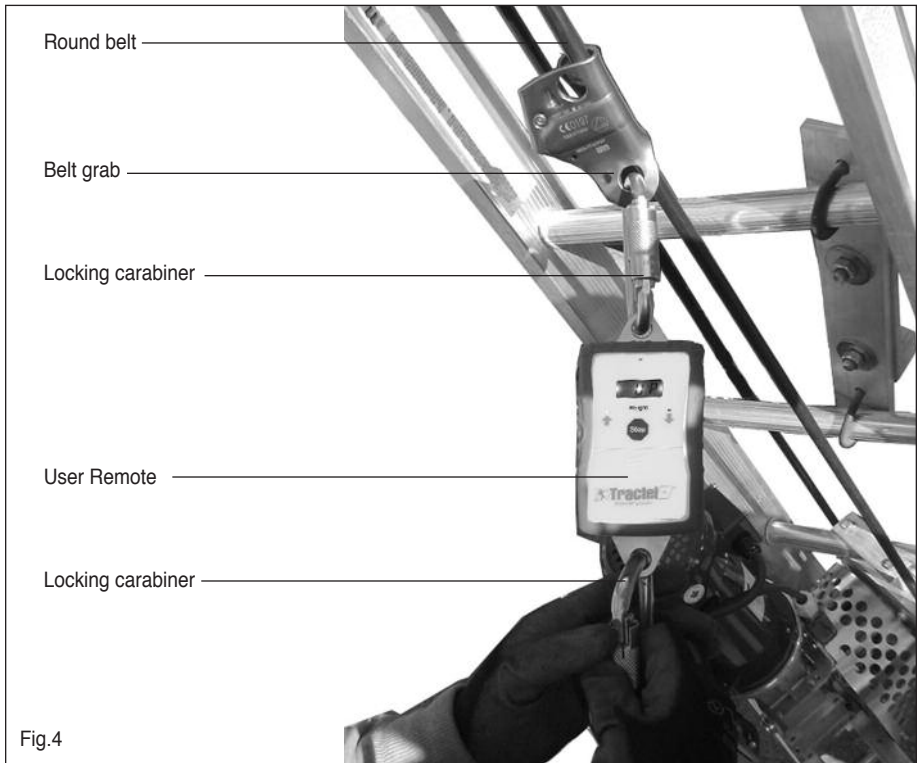


Fig.4

4. Personal Protection Equipment

4.1 General



The Tractelift™ Type II does not protect against the hazard of falling! During climbing /



descending the ladder, personal protection equipment must be used: Harness with appropriate life line fall arrester used on a fall protection system (ANSI Z359,

CSA Z259 and PPE directive 89/686/CEE) (Fig. 5).

This can be, for example, a fall arrest system with fall arrest device on the middle pole of the ladder, connected to the anchor ring of the harness.

The fall arrest system is not a part of the Tractelift™ Type II, but a part of the vertical ladder. The shown pictures/drawings shall be understood as examples.



Follow the instructions delivered with the harness and with the belt grab in use!

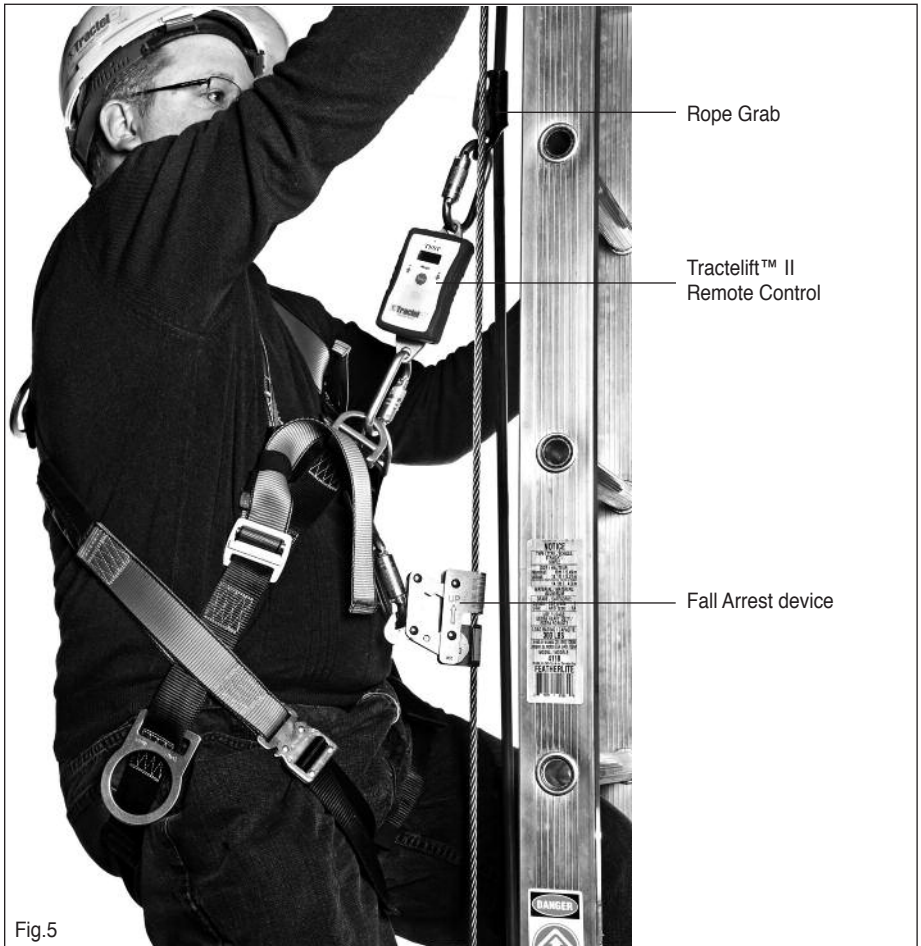




Fig. 5a

4.2 Harness

User must wear a certified ladder climbing harness chest (to be connected to the fall arrest system), and one at the waist (for the belt grab of the Tractelift™ Type II).

Canada - CSA Class AL, US - ANSI Z239
EU directive 89/686/CEE.

Harnesses are available from Tractel® that provide the recommended upper and lower D-rings for connecting to the Tractelift™ climbing system. Contact Tractel® for details.

4.3 Fall arrest system

Protection against fall is provided by the fall arrest system only, and not by the Tractelift™ Type II. The fall arrest system is a part of the vertical ladder and **not of the Tractelift™ Type II.**

As an example, Fig. 5b shows Tractel® Stopcable® Ladder Safety System attached to a typical ladder. This system provides a wire rope with integrated shock absorber and wire rope grab connected to your harness as your fall arrest system.

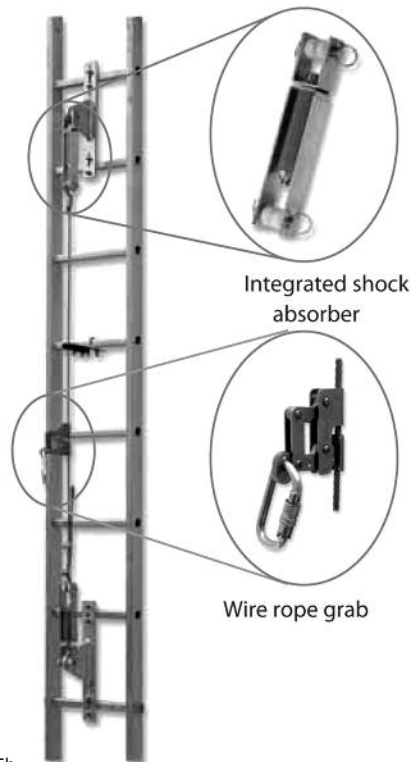


Fig. 5b

5. Using the belt grab

WARNING

Follow the instructions delivered with the belt grab in use!

5.1 Installing the belt grab

- a) **Attach and lock the locking carabiner** to the lower eye of the belt grab (Fig. 6).
- b) **Open the belt grab:** Pull down the black lever, and turn it to the right together with the clamping jaw. When letting the lever go, the clamping jaw should lock in its open position (Fig. 6).
- c) **Put the belt grab on the round belt** (Fig. 7), and push the black lever downwards. The spring mechanism pushes the clamping jaw towards the round belt (Fig. 8).
- d) **Slide the belt grab** – with the Carabiner connector showing towards the operator.
- e) **Fix the belt grab to the round belt** by jerking/pulling it downwards, so that the teeth of the clamping jaw can securely grip the belt.
- f) **Attach the top of the remote control** to this Carabiner and attach a second Carabiner to the bottom of the remote control the bottom end is now connected to the users safety harness (Fig. 9).


 **Important:** The grip of the belt grab's teeth does not affect the round belt's safety.



Fig.6



Fig.7



Fig.8



Fig.9

5.2 Connecting belt grab and harness

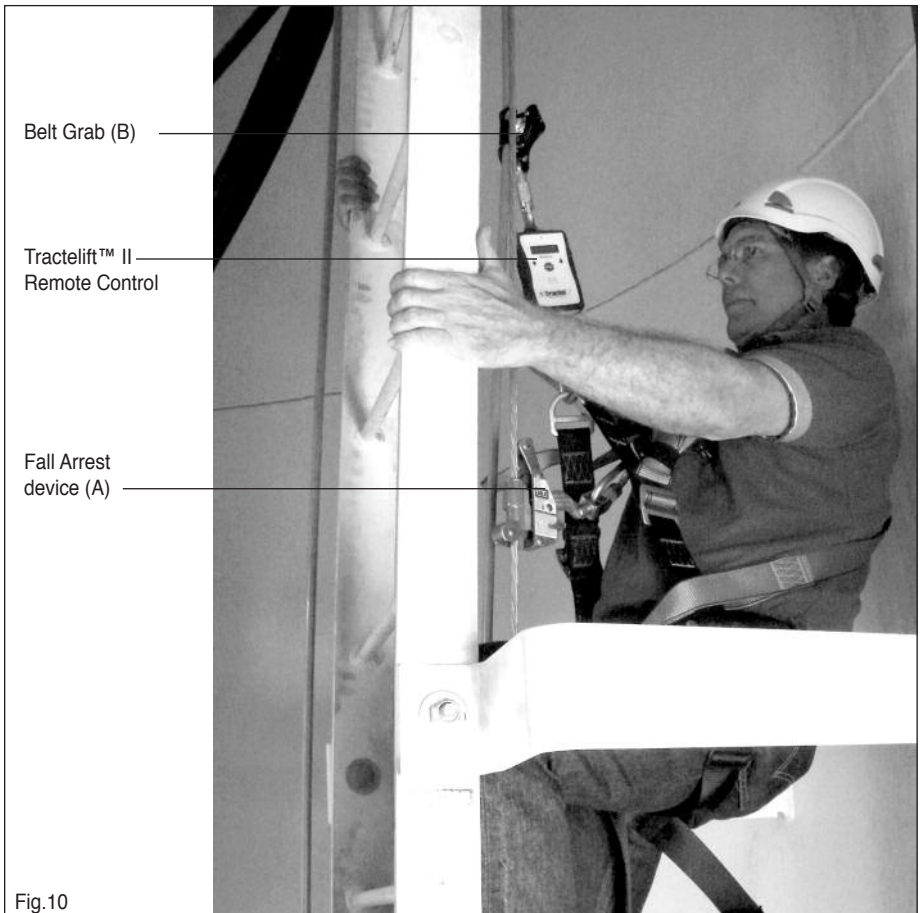
Separate connection

Fig. 10 shows the application with an approved harness with two separate D-rings.

The **fall arrest (A)** is connected to the D-ring at **chest level**, and the belt grab (B) at the D-ring at waist level. This application guarantees for the most effective support of a comfortable ascent.

5.3 Removing the belt grab

Open the belt grab as described above, and remove it from the round belt. In case the black lever cannot be moved by hand, first slide the belt grab a little bit upwards to enable the clamping jaw teeth to release from the belt.



6. Using the Tractelift™ Type II during Ascent



WARNING

Never set the remote to a higher weight than the current user weight.

First time users should test the remote at the lowest setting to gain a comfort level of the pulling system, before adjusting to the users current weight.

Only one person allowed to be connected during use!

The Tractelift™ Type II does not protect against the hazard of falling! During climbing / descending the ladder, personal protection equipment must be used: Harness with appropriate life line fall arrester used on a fall protection system (ANSI Z359, CSA Z259 and EU directive 89/391/EEC)



CAUTION

6.1) Power supply:

a. Make sure the power being supplied is the same as the Tractelift Type II provided either 110 V - 1 PH, 50/60 Hz, (15 amp) (UL/CSA) or 220 V - 1 PH, 50/60 Hz, (10 amp) (EU - 2006/42/EC) and plug in the control box to the approved power supply (by qualified person).

b. Turn the key of the **service switch** (Fig. 12) to the right – the **EMERGENCY-STOP-button** comes out, the signal lamp illuminates green. **The Tractelift™ Type II is ready for use.**

6.2) Select user weight on remote:

Two user remotes are available, Blue rubber casing for users between 102 - 160lbs. (51 - 80 kg) and a Red rubber casing for users between 160 - 250lbs. (80 - 125 kg). (Fig. 13).

Never set the remote to a higher weight than the current users weight.

To set your weight into the remote push and hold the stop button on the remote, and at the same time press up or down button to increase or decrease to your body weight (Fig. 14 & 15). The remote allows increments of 10 lbs (5 kg) from - 100 - 150lbs (50- 75 kg) or 160 - 250lbs (80 - 125 kg). If the user is between 2 settings, it is recommended selecting the lower weight setting. **It is recommended that first time users should test the remote at the lowest setting to gain a comfort level of the pulling system, before adjusting to their weight limit.** To change direction either from increasing or decreasing weight press the stop button again and select the reverse direction. The remote will retain the weight of the last weight entry.

Fig.12

Control Box
Service Switch
and
EMERGENCY-STOP

Signal lamp

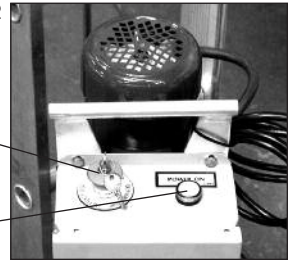
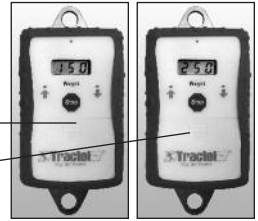


Fig.13

User Remote controls

Blue 51 - 75 kg
(102 to 150 lbs.)
Red 80 - 125 kg
(160 to 250 lbs.)



User Remote Control

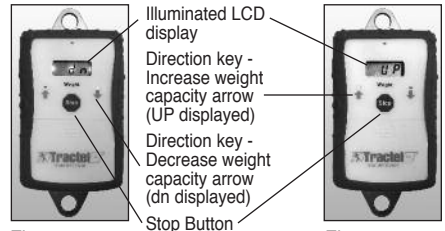


Fig.14

Fig.15

6.3) Check Harness:

Confirm the harness is connected to your fall arrest system and to the remote control and belt grab, and **check all the locking carabiners are correctly closed.** See section 4 and 5 for additional details pages 8 and 9.

6.4) To start the Tractelift™ Type II:

Once users weight is set press the direction (UP or Down) key and the system will ramp up to speed and continue to run while it detects climber movement. Once climbing has begun and the system has activated when pausing mid climb, to re-activate the system press the direction key on the remote or manually by taking the belt grab and pulling on the round belt upwards by climbing one or two steps. Continue to climb the ladder as normal. If you have paused your climb longer than 10 seconds you must re-activate by pressing the direction key on the remote. (Note: the green signal lamp will flash on the control box when the system is in use).

6.5) Belt guiding devices

When reaching an optional belt guiding device mounted in front of the ladder

- Unhook the belt,
- Continue with climbing, until the belt grab has passed the guiding device, and
- Insert the belt into the guiding device again.

6.6) To STOP the Tractelift™ Type II:

Important!

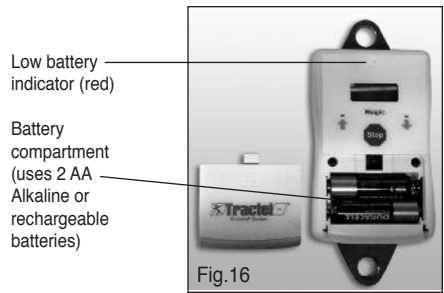
i It is recommended that you slow down your climbing pace, which will reduce the pulling force to have a more comfortable stop.

The system will continue to run while detecting climber movement till one of the following occurs.

- a) The stop button is pressed. (Note the climber needs to press up or down to start the system again or activate manually by taking the belt grab and pulling on the round belt upwards by climbing one or two steps.)
- b) The climber stops climbing, which locks the upward movement of the round belt, and the motor automatically stops after the pre-adjusted time period has elapsed. (Note the climber needs to press up or down to start the system again or activate manually by taking the belt grab and pulling on the round belt upwards by climbing one or two steps.)
- c) If belt over speed is detected system will shut off. (exceeds 120 ft (36.5 m) per min.)
- d) The emergency stop button at the control panel is pressed. The remote will show a E5 error code, indicating the emergency stop button has pressed. The system will not start till the service switch is activated at the control panel (see step 1).

6.7) Replacing Batteries

The remote control operates by 2 AA alkaline batteries (Rechargeable batteries can be used) when these become low a red indicator light at the top of the remote glows red (Fig. 16). This indicates it's time to replace the batteries in the unit. To replace the batteries remove the protective cover from the remote. Open the front panel by sliding the front cover down off the remote. Replace the 2 batteries as indicted on the remote and close the cover and replace the protective cover. Batteries to be recycled as per local regulations.



6.8) Leaving the ladder:

Important!

- i** Always take the belt grab Otherwise the following may happen:
- If the motor is started again (e. g. by a person at ground level), the round belt will carry the belt grab upwards, until it arrives at the diverter pulley on top of the ladder or till over-speed of the belt is detected.
 - The belt grab will lock the round belt, which causes the motor to stop;
 - **No one can use the Tractelift™ Type II**, unless a person climbs to the top to take the belt grab off the round belt!

7. Descending

Important!

i The Tractelift™ Type II may also be used for descending to relieve the user while climbing downwards.

When climbing the internal ladder you must maintain 3-points of contact, two hands and a foot, or two feet and a hand on the ladder at all times. You must keep your body near the middle of the rung and always face the ladder while climbing (see diagram). OSHA 3246-09N-05.

Using improper and unsafe climbing techniques such as sliding or Peter Panning the ladder during decent can have a negative effect on the motor that will void the warranty of the system.

See 6.3 and 6.4 for instructions to start unit.

8. Out of service

Disconnect the drive unit from power supply:

- Push the **EMERGENCY-STOP-button** – the signal lamp goes off.
- Take off the key and store it to its intended place.

9. Troubleshooting

1. Inspections and repairs on the electrical components must only be carried out by Tractel® approved **qualified electricians!**
2. Repairs to the mechanical parts of the system must only be performed by the supplier or a Tractel® approved qualified person!



WARNING!

Unplug mains plug prior to opening any terminal box or control equipment!

Breakdown	Cause	Remedy
The Tractelift™ Type II resp. does not run at all.	a) Missing power supply. b) Control not activated – the signal lamp is not illuminated. c) Interruption in supply cable between mains connection and motor control. d) Control panel error	a) Turn the mains switch to ON plug to supply socket b) Turn the key of EMERGENCY-STOP - button to the right – the button comes out, the green signal lamp indicates “ready for use”. b) Check that the control panel has a secure connection c) Have supply and control cable, fuses and connections between motor and control box checked/ repaired. d) Have an expert check/repair the control panel
The Tractelift™ Type II cannot be stopped.	Control panel error	Have an expert check/repair the control panel.
The Tractelift™ Type II repeatedly stops during ascent.		
Green signal light not flashing during use.	Lost signal to remote control unit	Check batteries/move remote closer to base station
The round belt does not run under load, while the driver turns idle.	Too low tension on the belt.	Have an expert check/adjust the belt's tension.
When starting the round belt becomes visibly slack underneath the belt grab and does not support the climber.		
The round belt does not run at all, and the motor stops after a short time.	Belt grab blocks the round belt at the diverter pulley, after not being removed when leaving the ladder.	Climb on top of the ladder, and remove belt grab from the belt.

10. Tractelift™ Type II with detachable Control Panel

10.1 Control Panel Installation

- With the lower pulley and motor installed the unit is ready for the removable control panel (Fig. 17)
- Remove the control panel from the container (Fig. 18)
- Slide the control panel (A) onto the mounting plate (B) (Fig. 17 to 21).



Note: When connecting the control panel, be careful not to damage the radio antenna (C) (Fig. 19)

- Once the control panel is in place, lock the panel pin in place by twisting the pin. (Fig. 20 & 21).

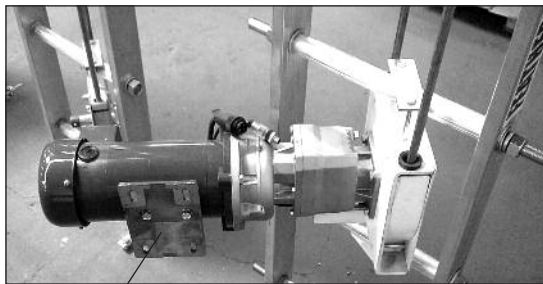


Fig.17

B



Fig.18

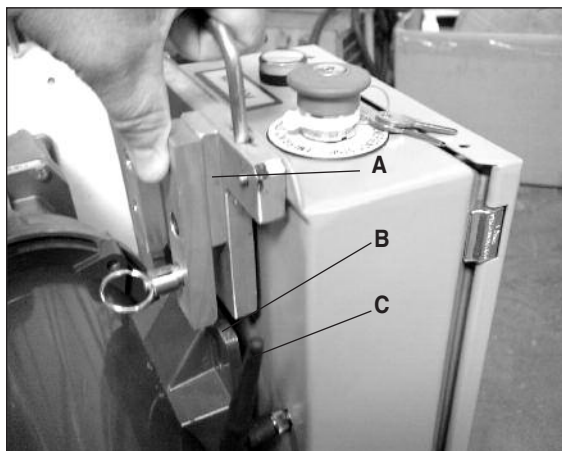


Fig.19



Fig.20 OPEN



Fig.21 LOCKED

- e) Connect the two control cables together, connection is by male and female connectors. **Both connectors have a positive fitting (D) connections and can only be connected in one alignment only (Fig. 22 & 23). The connector should tighten completely.** (Fig. 24 item E)



Never set the remote to a higher weight than the current user weight.

First time users should test the remote at the lowest setting to gain a comfort level of the pulling system, before adjusting to the higher pulling levels.

10.2 Connecting to power supply and function control

a) Activate Power supply:

- Plug in the control box power supply 110 V - 1 PH, 50/60 Hz, (15 amp) (UL/CSA) or 220 V - 1 PH, 50/60 Hz, (10 amp) (EU - 2006/42/EC) to an approved outlet.
- Turn the key of the **service switch** (Fig. 24) to the right – the **EMERGENCY-STOP-button** comes out, the signal lamp illuminates green.

The Tractelift™ Type II is ready for use.

10.3 Disconnecting the Control Panel

- Disconnect the power supply and the control cables
- Disengage the panel pin and slide the control box up off the mounting plate.
- Place the control panel back into the carrying container

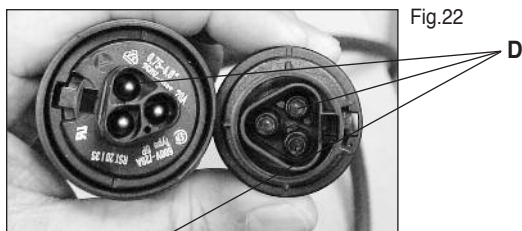


Fig.22

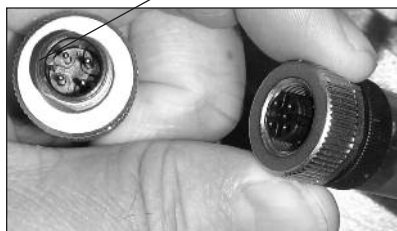


Fig.23

Signal lamp
E
Service Switch and
EMERGENCY-STOP

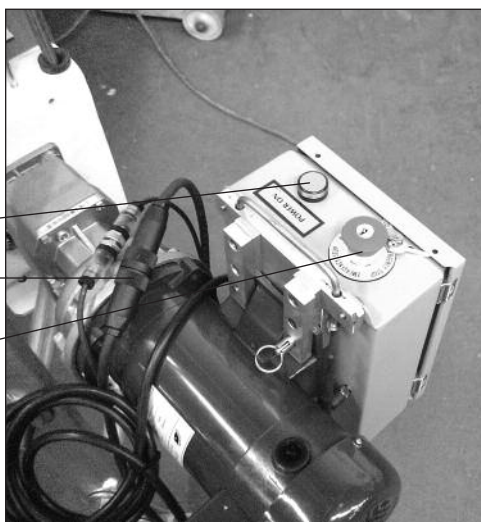


Fig.24

12. Maintenance

The Tractelift™ Type II maintenance

1. If during normal operation a check is necessary, ex. in the course of trouble-shooting, the authorized person must follow the "Installation and Maintenance Instructions" --manual.
2. **Yearly Inspection**, or more regularly depending on the working practice, by a authorized person according to the "Installation and Maintenance Instructions".



The result of these inspections have to be written down in the log-book at the back of the operation manual. The manual and the logbook should be located in the lower section of the tower beside the ladder.

13. Warranty

1. Tractel® Inc for USA, Tractel® Ltd. for Canada warrants its equipment to be free from defects in material and workmanship under normal use and service.

2. Our obligation under this warranty is limited to repairing or replacing, at our option, any part of the unit, which proves examination to our satisfaction to be defective in material or workmanship, if the item in question is returned through a Tractel® distributor, transportation prepaid, within one (1) year from the equipment is sold to the original purchaser. Return shipment must be prepaid.
3. Any parts proved to be defective upon our inspection will be repaired or replaced at no cost for the parts themselves.
4. The obligation under this warranty does not include labor or travelling costs, or consequential damages of any kind.
5. Any defect in this equipment must immediately be brought to attention of the distributor from whom the unit was purchased. The distributor will make arrangements with the factory for repairs or replacement of parts within the terms of this warranty.
6. **When climbing the internal ladder you must maintain 3-points of contact, two hands and a foot, or two feet and a hand on the ladder at all times. You must keep your body near the middle of the rung and always face the ladder while climbing (see diagram). OSHA 3246-09N-05. Using improper and unsafe climbing techniques such as sliding or Peter Panning the ladder during decent can have a negative effect on the motor that will void the warranty of the system.**

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Tel : 7 915 00 222 45

Inspection and Log-book

Tractelift™ Type II*

Climbing Aid for vertical ladders

Upper Diverter Pulley Serial #: _____

Driver Pulley Serial #: _____

Driver Unit Serial #: _____

Turbine #: _____

Owner: _____
(Address) _____

Place: _____
(Address) _____

First Inspection by: _____ Date: _____

Company: _____

P4792 Tractelift™ Type II* (*Patent Pending) logbook.Ind

Tractel® Swingstage® 01/2011

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Information about using the inspection and log-book

All occurrences related to the climbing aid have to be protocolled in this book.

The owner resp. the designated system attendant has to keep the inspection and log-book. He has to ensure that all records (see list of contents) are correctly noted and signed.

The records may be noted and signed either by the manufacturer, an authorized company, an expert, or by the system attendant.

Examples for records to be kept:

- Every inspection
- Every maintenance
- Modifications of the construction, trouble shooting

TABLE OF CONTENTS

	Form N°
- Inspection before initial operation of the climbing aid by a qualified person.	1
- Annual inspection / maintenance / trouble shooting of the climbing aid by the manufacturer / an authorized company.	2
- Regular safety inspection of the climbing aid by a qualified person.	3

Upper Pulley Serial N°: Driver Pulley Serial N°: Driver Unit Serial N°:	Inspection before Initial Operation of the climbing aid by a qualified person	Form N° 1
--	--	---

Inspection before Initial Operation Comments:	Date: <table border="1" style="display: inline-table; border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> <td style="width: 20px; height: 20px;">2</td> <td style="width: 20px; height: 20px;">0</td> <td style="width: 20px; height: 20px;"> </td> <td style="width: 20px; height: 20px;"> </td> </tr> </table> <hr style="width: 80%; margin-left: auto; margin-right: 0;"/> (Signature of the qualified person)					2	0		
				2	0				

Upper Pulley
 Serial N°:

Driver Pulley
 Serial N°:

Driver Unit
 Serial N°:

Annual inspection / maintenance / trouble shooting on the climbing aid by the manufacturer / a authorized company

Form N°

2

The annual examination / maintenance of the climbing aid has been carried out by:						
No.	Responsible (Name)	Company	Date	Signature	Defect¹⁾ Yes / No	Repair (Date)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

1) Comments about defect(s) on separate report.

Upper Pulley
Serial N°:

Driver Pulley
Serial N°:

Driver Unit
Serial N°:

**Regular safety
of the climbing aid by a qualified person**

Form N°

3

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Upper Pulley
Serial N°:

Driver Pulley
Serial N°:

Driver Unit
Serial N°:

**Regular safety
of the climbing aid by a qualified person**

Form N°

3

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

Regular Safety Inspection

Comments:

.....

.....

Date:

				2	0		
--	--	--	--	---	---	--	--

.....

(Signature of the qualified person)

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Report on the annual revision

For Climbing Aids

Climbing Aid N°
Windmill N°:

Place	
Owner	

Date of revision:								
For each position mark "○ = o.k." or "□ = Fault". Please describe every defect in Form N° 3!								
A. Driver unit								
1. Gearbox	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
1.1 Visual check	○	□	○	□	○	□	○	□
1.2 Anchoring check	○	□	○	□	○	□	○	□
1.3 Function check	○	□	○	□	○	□	○	□
1.4 Model "D" only: Connection between motor and pulley	○	□	○	□	○	□	○	□
2. Motor and Control	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
2.1 Visual check	○	□	○	□	○	□	○	□
2.2 Function check	○	□	○	□	○	□	○	□
B. Diverter unit	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
3.1 Visual check	○	□	○	□	○	□	○	□
3.2 Anchoring check	○	□	○	□	○	□	○	□
3.3 Function check	○	□	○	□	○	□	○	□
C. Round belt and Guidings	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
4.1 Visual check	○	□	○	□	○	□	○	□
4.2 Pre-tension check (see Table 1 of install. inst.)	○	□	○	□	○	□	○	□
D. Belt grab and spring snap connector	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
5.1 Visual check	○	□	○	□	○	□	○	□
E. Check full climb (twice)	o.k.	Fault	o.k.	Fault	o.k.	Fault	o.k.	Fault
6.1 Visual check	○	□	○	□	○	□	○	□
Name of the qualified person								
Signature								

OWNERS RESPONSIBILITY
 This record must be kept at site and equipment must be only used if all items found to be all OKAY or repair before use!

IMPORTANT SAFETY INSTRUCTIONS



When using the Tractelift, basic precautions should always be followed, including the following:

- a) Read all instructions before using the Tractelift™ Type II.
- b) To reduce the risk of injury, close supervision is necessary when the Tractelift™ is used near children.
- c) Do not contact moving parts.
- d) Only use attachments that have been approved by the manufacturer.
- e) To disconnect:
 - Turn all controls to the “off” position, then remove the plug from the outlet.
 - Do not unplug by pulling on the cord. To unplug, grasp the plug, not the cord.
 - Unplug from the outlet when not in use and before servicing or cleaning
 - Do not operate the Tractelift™ Type II with a damaged cord or plug, or after the Tractelift™ Type II malfunctions or is dropped or damaged in any manner. Return the Tractelift™ Type II to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- f) For a permanently connected Tractelift™ Type II - turn the power switch to the off position when the Tractelift™ Type II is not in use and before servicing or cleaning.
- g) For portable Tractelift™ Type II - to reduce the risk of electrical shock, do not put the Tractelift™ Type II in water or other liquid. Do not place or store the Tractelift™ Type II where it can fall or be pulled into a tub or sink.
- h) Connect the Tractelift™ Type II to a properly grounded outlet only.
- i) The Tractelift™ Type II control panel is factory set - no adjustments are necessary or allowed. Any tampering with the factory settings voids the warranty and Tractel is not liable for the consequences of this tampering.
- J) **When climbing the internal ladder you must maintain 3-points of contact, two hands and a foot, or two feet and a hand on the ladder at all times. You must keep your body near the middle of the rung and always face the ladder while climbing (see diagram). OSHA 3246-09N-05. Using improper and unsafe climbing techniques such as sliding or Peter Panning the ladder during descent can have a negative effect on the motor that will void the warranty of the system.**

SAVE THESE INSTRUCTIONS


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