



**T-LINE SAFETY SYSTEM**



# **OPERATOR MANUAL**

**DOC NO: T01 REVISION 1**

**EFFECTIVE: 17TH SEPTEMBER 2010**



## T-LINE SAFETY SYSTEM

# INTRODUCTION

This Manual contains safety information and instructions for operating the T-Line Safety System. This Manual should be stored in an area where it is accessible to operators of the T-Line Safety System.

Continued improvement and advancement of product design may have caused changes to your T-Line Safety System, which are not reflected in this Manual.

Some photographs or illustrations in this Manual may show details or attachments that are different from your T-Line Safety System. Whenever a question arises regarding your T-Line Safety System, or this Manual, please consult the Standfast website at [www.standfastusa.com](http://www.standfastusa.com) or [www.T-Line Safety System.com](http://www.T-Line Safety System.com) for the latest available information.

Further information on operating the T-Line Safety System is available in training material and courses. Further inquiry regarding these materials and courses should be directed to: [hq@standfastusa.com](mailto:hq@standfastusa.com)

The Equipment Record and an Operators Manual must be supplied to the end user when the T-Line Safety System is sold, resold or otherwise made available for use. This is to ensure that the end user gets the necessary information for the safe use of the T-Line Safety System.

# CUSTOMER SERVICE

Please contact the authorized T-Line Safety System distributor in your area for inquiries regarding the operation, periodic examination and recertification and repair of your T-Line Safety System. The distributor nearest you can be found by consulting [www.standfastusa.com](http://www.standfastusa.com) or [www.T-Line.com](http://www.T-Line.com)

# IMPORTANT SAFETY INFORMATION

- Do not use the T-Line Safety System unless you have read and understand the instructions and warnings in this Manual. Failure to follow the instructions or heed the warnings or improper operation could result in injury or death.
- Do not tamper with or make any alterations to the T-Line Safety System.
- The T-Line Safety System shall not be used outside its limitations as described in this Manual, or for any purpose other than that for which it is intended.
- The operation and maintenance of the T-Line Safety System must comply with the work safety laws of the jurisdiction in which it is used. Compliance may include the requirement for a Risk Assessment or Fall Hazard Survey Report.
- Operators of the T-Line Safety System must be properly trained and competent.
- A full body harness suitable for fall arrest is the only acceptable body-holding device that can be used with the T-Line Safety System.
- Operators must carry out a Pre-Use Check of the equipment, as per the instructions in this Manual, to ensure that it is in a serviceable condition and operates correctly before it is used.
- It is essential for safety that equipment is withdrawn from use immediately if the red indicator tab on the connector is exposed or should any doubt arise about its condition for safe use.
- Do not remove the labels from the T-Line Safety System. Replace labels that are illegible.
- The system is for the protection of one person only.
- Operators should be fit and healthy – otherwise consult a physician before using the T-Line Safety System. Do not use if pregnant.



# INSTALLATION



The T-Line must be attached with a suitable anchor system to a structure with a minimum strength of 5,000lb / 22kN

The Pulley is taken from the Pulley Stowage Pocket and moved to the far end of the elevated work area – extracting the Pulley Lifeline along the way.



The pulley must be attached with a suitable anchor system to a structure with a minimum strength of 5,000lb / 22kN

The Pulley Lifeline loops around the Pulley before being attached to the Connector Ring using the Pulley Lifeline Connector.

The T-Line and Pulley must be installed overhead  
The Pulley must not be mounted below the T-Line  
Do not allow slack in anchor slings as this will increase arrest distance.

Anchorage Minimum Strength	5,000lb / 22kN
Maximum span	40' / 12m
Maximum vertical range	40' / 12m

## SAFE WORKING AT HEIGHTS DURING INSTALLATION

Ensure that the risk of fall from height is controlled during installation. For example, a mobile elevated work platform may be used during installation.

## ANCHOR POINT SPECIFICATION AND CONNECTION

The anchorage and structure to which the T-Line is attached shall be capable of sustaining a static load of 5,000lb / 22kN.

Assess the building or structure and verify the adequacy of the anchor point before the system is put in to service.

A suitable connector and anchor system must be used to connect the T-Line to the supporting structure. For example: the T-Line Clevis Anchor Point, the T-Line Beam Clamp or the T-Line Anchor Sling (each sold separately).

Do not allow slack in anchor slings as this will increase arrest distance.

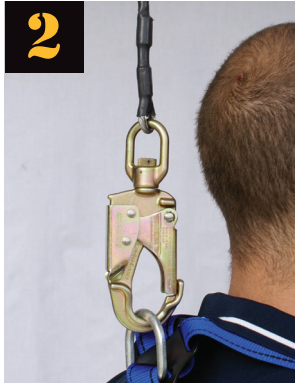
All components and subsystems should also comply with applicable Standards.

Follow manufacturer's instructions. Unless specifically allowed by the manufacturer, slings should not be choked and lanyards should not be back-hooked. Connectors should be compatible in size and shape to prevent rollout.

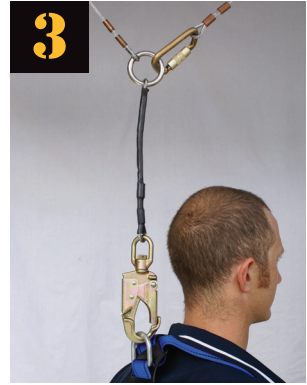
# MAKING PROPER CONNECTIONS



The Pulley Lifeline must be attached to the Connector Ring using the Pulley Lifeline Connector.

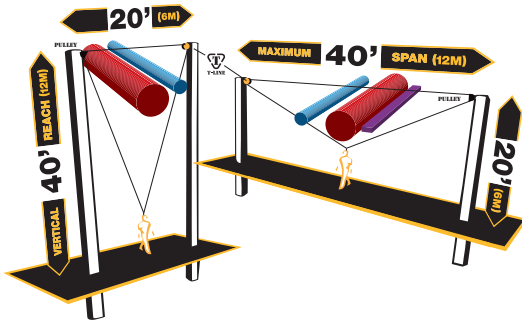


The Main Lifeline is terminated with a swivel connector – carabiner or snaphook – with fall indicator.



The operator attaches the Main Lifeline connector to the dorsal attachment point of the full body/ fall arrest harness.

## SAFE LIMIT OF OPERATION



If the operator falls, the T-Line will arrest the fall and hold the operator. The pulley brake grips the locked lifeline and prevents sliding.

If you have any questions about how to configure and use your T-Line safely, contact Standfast at [hq@standfastusa.com](mailto:hq@standfastusa.com)

## FREE FALL

The operator must remain below the T-Line and the Pulley.

When the operator is within the vertical Safe Limit of Operation, the Lifelines will exhibit retraction tension and the connector ring will be above the operator's head. Never work at a level where the operator's head is above the connector ring. (Note: It is normal for the Lifelines to exhibit some catenary or sag, particularly at wider spans.)

## PENDULAR SWINGS

The operator must remain between the T-Line and the Pulley.

Minimize pendular swings by working directly below the Pulley Lifeline which runs between the T-Line and the pulley.

## FALL CLEARANCE

It is essential that there is adequate clearance under the system so that in the event of a fall the operator will not strike the ground or any obstacle.

# GENERAL

Do not pass the lifeline(s) over sharp or abrasive edges.

Do not allow the lifeline(s) to deflect around plants, equipment or other obstacles.

Do not cross over with other lifelines.

Do not allow the lifeline(s) to pass under head, arms or legs or wrap around the body.

Do not hold or lock off the lifeline(s).

Do not let the lifeline(s) retract uncontrolled.

Do not allow foreign material to enter casing.

## SAFE ACCESS AND CONTINUOUS PROTECTION

Ensure that users can approach and connect to the T-Line without being exposed to a risk of fall. For example: the Main Lifeline Connector or a tag to the Main Lifeline Connector should be left in a suitable location so that users may connect to the system before moving to where there is a risk of fall. The same applies to egress and disconnecting.

Ensure continuous connection to the T-Line whenever there is a risk of fall from height. If not connected and there is a risk of fall from height, then an alternate means of fall protection must be employed.

## RESCUE



Release the Rescue Handle by removing the retaining pin.

Fold the handle down and align the slot in the handle with the shaft in the center of the winch boss.

Ensure that the handle is pushed fully into the winch boss. Once engaged, the handle will be retained by the spring loaded steel ball.



Rotate the Rescue Handle in the clockwise direction to transport the suspended user towards the T-Line unit.

Maintain constant visual contact with the user. Do not harm the rescue subject. Stop winching if the rescue subject is caught or snagged.

## PRE-USE CHECK

Pre-Use Checks are essential and should be carried out by the operator prior to each use of the T-Line Safety System.

If the Pre-Use Check finds any defect or should any doubt arise about its condition for safe use, it is essential for safety that equipment is not used and withdrawn from use immediately.

Check the Equipment Record to ensure that that the Periodic Examination and Recertification is up to date.

The Pre-Use Check of the T-Line consists of visual checks and checks of operation.

- Visually inspect the T-Line casing for signs of damage or cracking that may reduce the structural integrity of the device in any way.
- Withdraw approximately 6' (1m) of each lifeline and check that it remains under tension and then rewinds smoothly
- Withdraw the Main Lifeline rapidly to check that it locks
- Inspect the swivel connector with fall indicator. If any portion of the indicator reveals the red marker, the T-Line should be removed from service.

Check the fall arrest harness, other connectors and anchor slings (if used) as per the manufacturer's instructions.

## PERIODIC EXAMINATION AND RECERTIFICATION

The continued efficiency and durability of the T-Line Safety System and the safety of the user depends on regular Periodic Examination and Recertification.

Periodic Examination and Recertification is additional to the Pre Use Check and is a more formal, in-depth inspection and must be carried out at intervals of 12 months or less.

Under extremely severe corrosive liquid or abrasive dust exposures or for operation under extremes of temperature, more frequent Periodic Examination and Recertification may be necessary.

Periodic Examination and Recertification is only to be conducted by an Authorized Service Agent.

## WITHDRAWAL FROM USE AND REPAIR

It is essential for safety that equipment is withdrawn from use immediately should any doubt arise about its condition for safe use.

Repairs are only to be conducted by an Authorized Repair Agent. Warranty may be negated if repairs are made otherwise.

# EQUIPMENT RECORD

Documentation is a key element of a well-managed personal protective equipment program.

Equipment Records should be maintained as proof of Periodic Examination and Recertification and Repair.

It is the responsibility of the user organization to enter onto the Equipment Record the details required.

## CLEANING AND STORAGE

Use a damp (not wet) cloth to remove dirt or other contaminants from the casing. Do not use abrasives or solvents. Mild detergent may be used but residue must be wiped away.

Use a bristle brush to remove dirt or other contaminants from the lifelines. Do not use a wire brush. Do not use gasoline or solvent. Lubrication may be applied to a clean dry lifeline with a cloth.

Never immerse in water. If water does get into the casing, hang the unit and slowly withdraw each lifeline allowing the water to run out. Use a clean dry cloth to wipe the lifeline dry as it returns. Repeat if required.

Store the T-Line in a clean, dry place.

## EQUIPMENT RECORD

Serial Number:	Owner:			
Date of Manufacture:	Name of Organization:			
Date of Purchase:	Address:			
Date first put into use:				
DATE	ACTIVITY	REMARKS	NAME & SIGNATURE OF COMPETENT PERSON	NEXT SERVICE DUE

EQUIPMENT RECORD - FOR ILLUSTRATION PURPOSES ONLY

# LABELS



**T-LINE SAFETY SYSTEM**

**Model No:** T01  
**Date of Manufacture:** 2010  
**Lanyard:** 4.8mm / 3/16" diameter Galvanized steel rope  
**Lanyard Length:**  
 Main Lined – 12m / 50'  
 Pulley Lined – 23m / 80'  
**Max Span:** 12m / 40'  
**Capacity: One person only**  
 140kg / 310 lbs maximum  
**Max Arrest Force:** 6kN / 1,350lb  
**Max Arrest Distance:** 1.8m / 6'  
 Standard: ANSI Z259.1 (SRP)



**ESTE LADO HACIA ARRIBA**

**WARNING**

Always attach the Pulley Lined to the Connector Ring, always the Main Lined to distal attachment of harness. Use a full body fall arrest harness. Use a suitable anchor system to secure the T-Line and Pulley to a structure with minimum strength of 22.2kN / 5000lb. Do not allow slack in anchor straps as this will increase arrest distance.

The operator must remain between and below the T-Line and the Pulley.

Always be adequate fall clearance below to avoid collision with a structure or the ground.

There must be a minimum clearance of 0.9m / 3ft<sup>1</sup> between the top of the operator and the top Lined. Ensure safe working at heights during installation.

Do not use safety harness and continuous protection.

Do not use the lanyard near sharp or abrasive edges. Do not allow the lanyard to contact any sharp or abrasive edges. Do not use the lanyard to secure any equipment or other obstacles. Do not cross ladders or laces over with other lines.

Do not allow the harness to pass under feet, arms or legs or wrap around the body. Do not walk or kick off the harness. Do not let the harness retract uncontrolled. Do not allow legs retract to enter control.

Contact rescue supervisor regarding training the device for backing in accordance with instructions.

Follow the manufacturer or authorized agent for inspection and re-certification of least every 12 months.

Do not use if red flag indicator on a connector is exposed. Do not remove this label.

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Patent Pending



**WARNING**



Always read and follow the instructions



**T-LINE SAFETY SYSTEM**

**Model No:** T01  
**Fecha de fabricación:** 2010  
**Acabador:**  
 4.8 mm / 3/16 pulg. de diámetro  
 Soga de acero galvanizado  
**Longitud del acabador:**  
 Línea de vida principal: 12 m / 50 pies  
 Línea de vida de la polea: 23 m / 80 pies  
**Everguadura máx.:** 12 m / 40 pies  
**Capacidad:** Solo una persona.  
 140 kg / 310 libras de capacidad máxima  
**Fuerza de detención máxima:** 6 kN / 1350 libras  
**Distancia de detención máxima:** 1.8 m / 6 pies  
 Estándar: ANSI Z259.1 (SRP)



**ESTE LADO HACIA ARRIBA**

**ADVERTENCIA**

Siempre aneje la línea de vida de la polea al anillo conector. Siempre la línea de vida principal al anillo distal del arnés. Use un arnés de cuerpo completo con detención de caídas. Use un sistema de anclaje adecuado para asegurar la línea de vida a una estructura que soporte un mínimo de 22.2 kN / 5000 libras.

No debe haber un anclaje de los anclajes, ya que esto aumentará la distancia de frenado.

El operador debe permanecer entre la línea T-Line y la polea, por debajo de ella.

Para evitar choques con una estructura o el suelo, debe haber una distancia de seguridad adecuada para evitar de colisión. Debe haber un espacio mínimo de 0.9 m / 3 pies entre la parte superior del operador y la parte superior de la línea de vida, siempre con seguridad en las áreas, durante la instalación.

Garantía: un acceso seguro y una protección continua.

No use la línea de vida por resacas o objetos afilados.

No permita que las líneas de vida se desvíen. Nunca se deslize por debajo de ellas, mientras se están instalando, o se estén usando.

No permita que las líneas de vida queden por debajo de la cabeza. No treque. No permita el descenso del cuerpo. No suba ni treque las líneas de vida. No deje que las líneas de vida se resquen sin control.

Indique una inspección previa al uso que incluya comprobar que el dispositivo de bloqueo funciona de acuerdo con las instrucciones. Use la unidad de bloqueo si queda atrapado al moverse en el sitio. No de que se efectúe su inspección y se renueve la certificación.

No use el sistema si el indicador de carga de color rojo del conector está al descubierto. No quite este rotulo.

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ADVERTENCIA



Siempre lea y siga las instrucciones

Peligro persistente






**T-LINE SAFETY SYSTEM**

**RESCUE INSTRUCTIONS**

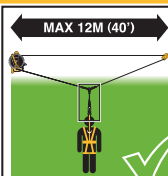
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**T-LINE SAFETY SYSTEM**

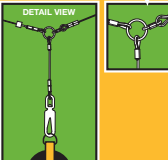



**T-LINE SAFETY SYSTEM**

**MAX 12M (40')**



**DETAIL VIEW**





**T-LINE SAFETY SYSTEM**

# WARRANTY

Standfast warrants to the owner-user that Standfast T-Line product will be free from defects in material and workmanship. This warranty for new products is limited to two years from the date of purchase.

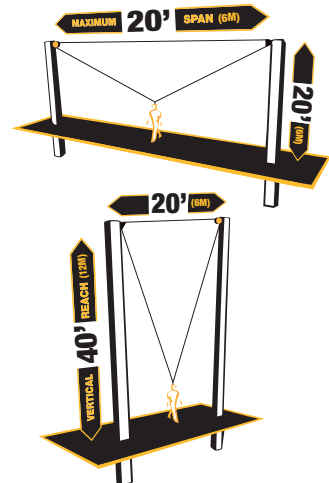
Standfast's obligations under this warranty are limited to the replacement of the equipment or repair of the equipment. Standfast shall not be liable to the customer for any incidental, consequential, exemplary, special or punitive damages, nor for any loss of revenue, profit or use arising out of a breach of this warranty or in connection with the sale, maintenance, use, operation or repair of the product. In no event will Standfast be liable for any amount greater than the purchase price of the defective product.

This warranty, during the original warranty period, extends beyond the original purchaser to subsequent owners of the T-Line.

Repairs carried out under warranty do not extend the warranty period.

The warranty provided herein shall be void and of no effect in the event that a) the product has been operated outside its designed use; b) the product has been subjected to misuse, neglect, accident, improper or inadequate maintenance; c) unauthorized modification(s) have been made to the product; d) the product has not been installed and operated in compliance with Standfast's instructions, e) the serial number of the product has been altered, defaced or removed.

MAX SPAN		40'	/	12m
MAX VERTICAL RANGE	@ 40' span	20'	/	6m
	@ 20' span	40'	/	12m
MAX FALL ARREST DISTANCE		6'	/	1.8m
MAX FALL ARREST FORCE		1,350lb	/	6kN
MAX USER WEIGHT		310lb	/	140kg
ANCHORAGE RATING REQUIREMENT		5,000lb	/	22kN
WIRE ROPE MIN BREAKING FORCE		3,820lb	/	17 kN
	(5mm diameter, 7x19 Strand)			
WEIGHT		50lb	/	22.5kg



**T-LINE** SAFETY SYSTEM

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## T-LINE SAFETY SYSTEM



Always read  
and follow the  
instructions

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**T-LINE SAFETY SYSTEM**

**HANDLE WITH CARE**



**STANDBFAST**  
The Safety Corporation



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