USER INSTALLATION & INSTRUCTION MANUAL

Manual #4.9XX.0000.R00

Rail Fall Protection System
Ladder and Titan Towers Installations

Utilizing a Full Body Harness attach the Cougar MAX Trolley only at this Stemmm Connection Point.

CSA Z259.2.1-98
Revision Date: April 29, 2011
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SAFETY RAIL SYSTEM INSTRUCTIONS

WARNING

This manual is intended to be used as part of an employee fall-protection program including training and supervision in accordance with local regulatory authorities and the applicable voluntary standards of the Canadian Standards Association (CSA).

All persons using or installing this equipment must read, understand and follow all instructions before the installation or use of the system. Failure to do so may result in serious injury or death. DO NOT use this equipment unless you are properly trained.

1.0 FORWARD

These instructions describe the installation and the use of the Trylon TSF COUGAR Safety Rail System. They should be used as part of a fall protection employee training program as required by the regulations governing occupational safety as well as the applicable standards of CSA. It is the employer’s responsibility to ensure that all users are trained in the proper use, inspection and maintenance of the Cougar Rail System.

IMPORTANT: If you have questions on the installation, application, use, or maintenance of this equipment, contact Trylon TSF. If additional instructions are required, supplemental clarification will be provided.

Before using this equipment, the product identification information shown on the installation and service labels should be recorded in the maintenance log in Section 10.0 of this manual. If the system includes a Trolley, record serial number in the maintenance log as well.

All safety rail systems and components are to be used under the safety standards in place in the jurisdiction in which you are working. These instructions are not meant to modify or supersede any local or federal safety standards.

These instructions must be provided to all users. Follow the manufacturer’s instructions for safety equipment used with this system.
2.0 GENERAL WARNINGS

2.1 Follow these instructions for the proper use, inspection and maintenance of this safety equipment.

2.2 Failure to follow both the manufacturer’s instructions and the safety standards in the jurisdiction may result in serious injury or death.

2.3 Alterations substitutions or misuse of this product may result in serious injury or death.

2.4 Any Trylon TSF COUGAR MAX RAIL TROLLEY which has been used during a fall arrest incident should not be used afterwards and should be replaced. As well, the section of the rail involved and all terminations needs to be replaced at once. Until a full replacement of the system is implemented you should not ascend or descend on a system that has been subjected to a fall.

2.5 All equipment must be inspected before each use according to the manufacturer’s instructions. Do not use if any part of the System appears to be damaged.

2.6 Do not remove or deface any product labels or warnings.

2.7 To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.

2.8 Use caution when installing the Cougar Safety Rail System. Wear personal protective equipment, including safety glasses and steel-toed shoes. Use personal fall arrest systems when exposed to a fall hazard. Use caution when installing Cougar Safety Rail Systems near power lines. Cougar rail is conductive. Do not connect to a partially installed System.

3.0 USE AND LIMITATIONS ON USE – CLIMBING WITH THE COUGAR SAFETY RAIL SYSTEM

3.1 Trylon TSF’s fall protection systems must NOT be used as a work positioning device or lifeline while working. Such a practice is strictly prohibited. The Cougar Rail System is only approved for fall protection while climbing. A back-up fall arrest system is required when transitioning on and off the Rail System at a height.

3.2 The Cougar Rail System is provided as an integrated kit and may not be used for other applications in conjunction with other fall protection systems. CSA Certification is void if components are purchased or introduced outside of the kit.

3.3 The Cougar Rail System is designed to be used to arrest the fall of up to four (4) climbers at a time while ascending or descending the ladder only.

3.4 The Cougar Rail System is designed to be used in a vertical operating position. The system must be installed plumb (±3°) to ensure proper activation of the Trolley brake cam.

3.5 Workers should always tie off to an appropriate anchorage structure by means of a lanyard while working or resting, in accordance with the relevant safety standards. The anchor point for such a lanyard should be above the user to prevent a pendulum fall.
3.6 You are required to use with this System a properly certified full body harness (CSA Z259.10-06, Class “AL” with a frontal D-ring attachment at the sternum (chest) certified for ladder climbing.

3.7 Make sure that clothing, the harness itself and the length of any D-rings or connectors supplied with the harness do not impede the locking mechanism on the Rail Slider.

3.8 When installing the Trolley to the rail, ensure that the UP arrow engraved on the Trolley is pointing up the ladder. With the SafetyLock™ orientation lockout feature incorporated into the Trolley and functioning properly, you should not be able to install the Trolley upside down. Never disable or otherwise modify the SafetyLock™ feature as this may lead to the installation of the Trolley upside down which may result in the Trolley failing to lock on to the rail in a fall thereby resulting in serious injury or death.

3.9 Attach the Trolley to your harness with a CSA certified karabiner. The Cougar MAX Trolley is equipped with a certified non-removable karabiner. Do not use a second karabiner or any other devices such as a short lanyard, chain, link or clevis to connect with the Trolley. The attachment from the sternum D-ring to the Trolley must not exceed 0.15 M (6 inches) in length.

3.10 Trylon’s Safety Trolley & Rail System is intended to arrest personnel (not material) should they (the individual) slip or fall while climbing a fixed ladder.

3.11 The Cougar Safety Rail System is designed to arrest the fall of up to four (4) climbers at a time while ascending or descending the ladder only. All other climbers must be tied-off appropriately.

3.12 Ensure the anchorage system can support a minimum load of 3,600 pounds. The design working load is 880 pounds (400 kg) DO NOT EXCEED THIS WEIGHT. Certification is applicable to the device only. Neither the manufacturer nor CSA has investigated the anchorage system. The Cougar MAX Safety Rail Trolley is designed to work on Trylon’s Safety Rail Systems only.

3.13 Climbers should always tie off to a structure by means of a lanyard while working or resting. When detaching from the trolley to work elsewhere on the structure, as a best practice, climbers should also tie off their trolley to avoid the unlikely event of the trolley ‘slipping’ down the rail during extreme vibrations.

3.14 When possible the Cougar MAX Trolley should be positioned above the user to prevent pendulum fall. Trolley is not suitable for use when the climber is positioned on unstable surface, fine grain material or particulate.

3.15 The Cougar MAX Trolley is designed to arrest within 150 mm for the dynamic performance test as outlined by Clause 6.3.1.2.1 from CSA Z259.2.1 standard. The Cougar Trolley is designed to arrest within 300 mm for the dynamic strength test as outlined by Clause 6.3.1.2.2 from CSA Z259.2.1 standard.

3.16 Cougar Rail is extruded from T6061T6 Billeted Aluminum.
4.0 TRAINING

4.1 Climbers should fully familiarize themselves with these instructions and the inspection, operation, maintenance and limitations of the system before ascending the tower. Training should be conducted periodically without exposing the trainee to a fall hazard.

4.2 All climbers should ensure that the correct certified (CSA Z259.10-06, Class “AL”) body harness which includes a sternum connection point is properly fitted according to the manufacturer’s instructions and ensures that it does not interfere with arresting features of the fall protection system. The attachment from the sternum D-ring to the Trolley should not exceed 6 inches in length.

4.3 All instructions and warnings provided with the body harness must be read and understood before using the fall protection system. A proper harness fit also helps ensure that the climbing action of the Trolley on the rail is smooth and reduces the potential to “snag”. Snagging is a nuisance to climbers, although not a safety hazard. A body belt is NOT approved or recommended for use with the Cougar Rail System. Climber MUST use a harness with a sternum connection point.

4.4 Make certain all applicable hazards are properly addressed to provide climber safety. Factors such as hazardous power lines, antenna radiation, physical obstructions, icing, frost and the climber’s knowledge, ability and health all determine the usage of this equipment.

5.0 INSPECTION

5.1 The Safety Rail Trolley system is designed to function as an integrated system and the use of non-compatible materials or devices is strictly prohibited and may result in serious injury or death.

5.2 A visual inspection of the Cougar MAX Trolley is required before each use. Detailed inspections should be conducted on a regularly scheduled basis as determined by the user and in compliance with local or federal safety standards. There should be a minimum of two (2) detailed inspections per year by a competent person other than the climber. Inspect all components and fasteners of the trolley for bends, cracks and deformities. Operation of the fall arrest lever mechanism and the SafetyLock™ orientation lock-out device moves freely. Inspect the rail Trolley body for excess wear on the inside where the rail passes through. Inspect the compression spring and ensure it is in place and missing. Ensure that all four rollers (wheels) are in place, secure and not damaged or unduly worn. Always check Trolley before ascending to ensure it runs free and locks properly onto the rail.

5.3 Should you detect any worn Trolley parts, the entire Trolley should be returned to the manufacturer for repair or replacement?

5.4 Ensure that the rail mounting system is properly attached and has not been tampered with or vandalized. Check that the rail does not show signs of undue corrosion, wear or foreign substances that may prevent the Trolley from functioning properly. Make sure that the ladder is securely fastened to the structure.

5.5 If inspection reveals an unsafe or a defective condition, due not attempt to climb with it and remove it from service immediately and notify your supervisor.
Step 1: Hold the trolley so that the UP arrow is pointing upwards and insert trolley onto bottom of rail.

Step 2: Ensure trolley slips onto rail channels properly, with UP arrow pointing to the top of the safety rail.

Step 3: Pull up on the karabiner to duplicate a climbing up motion. By pulling up, the cam will disengage and trolley will move up freely in the up direction.

Step 4: To ensure trolley is functioning properly, pull down on karabiner to duplicate a fall arresting situation. Trolley should grab safety rail immediately.

Notes/Best Practice:
1. Climbers should tie off to a structure by means of a lanyard while working or resting.
2. Climbers should also tie off the trolley when they are detached from it and working elsewhere on the structure. This is an extra precaution to avoid any slippage of trolley down the rail during extreme vibrations.
7.0 CARE AND MAINTENANCE OF THE COUGAR MAX TROLLEY

7.1 The trolley can be cleaned by dipping it in a mild soap and water solution. Do not use harsh detergents or chemicals or pressure washers. After cleaning, the unit should be rinsed in clear water and allowed to air dry naturally. After washing, hardware should be inspected. No lubrication is necessary.

7.2 All trolleys should be stored in a clean, dry area with limited exposure to the following:
   1) Sunlight
   2) excessive heat
   3) harmful fumes
   4) corrosive chemicals or conditions

8.0 LABELS/MARKINGS

LABEL

![Label Diagram]

**LEGEND**

1. Product P/N
2. Maximum connection length including karabiner
3. Minimum support structure capacity. CSA and ANSI certification apply to safety system support structure not certified by Trylon, CSA or ANSI
4. Weight capacity
5. Labeling in French
6. Compatible rail types
7. Product certified to CSA Z259.2.1 (Class FRL) (T.I.L.S-02 Fall-Back)
COUGAR SAFETY RAIL SYSTEM
INSTALLATION INSTRUCTIONS FOR LADDERS (CANADA)

PLEASE NOTE:
C.S.A. Certification is valid only if the system is installed using only the manufacturer's components and in accordance with the manufacturer's instructions.

WARNING:
Any Cougar Safety Rail System which has experienced a fall arrest must not be used after such fall arrest and must be replaced.

NOTE:
The Cougar Rail System must be attached to a structure capable of supporting a 5000 LB. static load.

STEPS:
1. Start bottom rail approximately 3 feet from bottom of ladder or base starting position. Locate rail at center of ladder of climbway to allow balanced foot placement.
2. Attach the first clamp one foot from the lower end of the bottom rail. Clamp every 4’ to 5’ as rungs permit. Top clamp should be on top rung of ladder. Rail can safely extend max. 1.5 feet above ladder top to permit safe arrival at ladder top. For best results, place clamp bolts in continuous T-slots and finger tighten at approximate locations before raising rail sections into place.
3. Splice rail sections at top of each section and tighten to allow positive joining of rails. Raise and secure the first rail to the ladder rung before continuing with intermediate rails. Leave 1/16" open at each joint for expansion and contraction.
4. Install top rail with bolt stop (3/8" x 2-1/2") through top hole. Stop bolt must be installed 3" below top of the rail section. The 3/8" bolts supplied are suitable for most applications.

OPERATION:
1. The Cougar Rail System is provided as an integrated kit and may not be used for other applications or in conjunction with other fall protection systems. CSA Certification is void if components are purchased or introduced outside of this kit.
2. The Cougar Rail System is designed to arrest the fall of up to three (3) climbers at a time while ascending or descending the ladder only.
3. The Cougar Rail System is designed to be used in a vertical operating position. The system must be installed plumb (±3°) to ensure proper activation of the trolley brake cam.

TO CLIMB:
1. Slide trolley onto rail, attach a full body harness with a frontal D-ring at the sternum (Type AS), snugly fit (refer to manufacturer's instructions for proper body fit of the harness).
2. Attach trolley to sternum D-ring on harness with a CSA approved karabiner not exceeding 6 inches in length.
3. Lean slightly away from rail to disengage pawl and climb or descend in like manner. Releasing tension automatically engages locking mechanism.

IMPORTANT NOTE:
Ladder type, rung size, rung spacing and all information pertaining to the installation should be given when ordering each kit. Installation recommendations and special brackets for non-typical installations are available by contacting Trylon TSF.

REFER TO DRAWING 000001.957.0034 FOR INSTALLATION DIAGRAMS
COUGAR SAFETY RAIL SYSTEM
INSTALLATION INSTRUCTIONS FOR LADDERS (CANADA)

18" MAX. ABOVE TOP CLAMP

REGULAR RAIL INSTALLED ON CENTERLINE OF LADDER

3/8" DIAMETER X 2-1/2" BOLT STOP

TOP RAIL (LENGTH TO SUIT)

INTERNAL SPACER BAR AT ALL RAIL JOINTS

1/16" EXPANSION GAP AT ALL SPLICES

REGULAR RAIL

4' TO 5' SPACING

3/8" DIAMETER BOLT (FULL THREAD)

TROLLEY BODY

TROLLEY LEVER KARABINER

APPROX. 12" TO FIRST RAIL ATTACHMENT POINT TO LADDER

3" APPROX. (TO GROUND OR PLATFORM)

TYP. ATTACHMENT NOTES AND DETAILS

START RAIL APPROX. 3'-6" FROM GROUND OR PLATFORM

PLATFORM OR GRADE

TYP. INSTALLATION DETAIL FOR LADDERS

STANDARD RAIL ATTACHMENT

3/8" DIAMETER BOLT (FULL THREAD)

BACKING PLATE

SQUARE

ANGLE

ROUND

REFER TO DRAWING 000001.957.0033 FOR INSTALLATION INSTRUCTIONS

TRYLON TSF

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WEBSITE: WWW.TRYLON.COM
EMAIL: INFO@TRYLON.COM
11.0 INSTALLATION INSTRUCTIONS FOR COUGAR RAIL ONTO TITAN TOWERS [CAN]

LOCATE THE BOTTOM RAIL AT ONE CORNER OF THE TITAN TOWER.
(E. AT THE APEX OF ONE OF THE TOWER LEGS). THIS LOCATION
WILL ALLOW BALANCED FOOT PLACEMENT DURING CLIMBING BY
"STRADDLING" THE RAIL/TOWER LEG. START THE BOTTOM RAIL
APPROXIMATELY 3 FEET FROM THE BOTTOM OF THE TOWER OR BASE
STARTING POSITION.

ATTACH THE "RAIL SUPPORT" BRACKETS EVERY 4'-5' IN THE
PRE-STAMPED "ACCESSORY HOLES" LOCATED ON THE TOWER LEG.
EACH TOWER SECTION EXCEPT #13 PROVIDES 7 ACCESSORY HOLES
(UP FOR VARIOUS ACCESSORIES LIKE SAFETY RAIL SIDE MOUNT KITS,
GROUNDING, WORK PLATFORMS, ETC.). SELECT ONLY 2 OF THESE
ACCESSORY HOLES PER SECTION AS YOUR SAFETY RAIL ATTACHMENT
POINTS, SPACED APPROXIMATELY 4'-5' AS LEG PERMITS. IF YOUR
TOWER MODEL INCLUDES A SECTION #13, SIMPLY ATTACH THE SAFETY
RAIL SUPPORT BRACKET ON ONE OF THE DIAGONAL BRACE HOLES.
DO THIS BY LOOSENING AND REMOVING THE BOLT AND THEN
RE-BOLTING THAT HOLE WITH THE RAIL SUPPORT BRACKET ALSO
INSERTED. THE BOLT IS LONG ENOUGH TO GO THROUGH THE RAIL
SUPPORT BRACKET, TOWER LEG & THE DIAGONAL BRACE.

TOP CONNECTION SHOULD BE AT TOP OF TOWER.
RAIL CAN SAFELY EXTEND MAX. 4 INCHES ABOVE TOWER TOP TO PERMIT SAFE ARRIVAL AT TOP TOWER
FOR BEST RESULTS, PLACE CLAMP BOLTS IN CONTINUOUS T-SLOTS
AND FINGER TIGHTEN AT APPROXIMATE LOCATIONS BEFORE
RAISING RAIL SECTIONS INTO PLACE. PUT SPICE SECTIONS
RAIL TOPS AND TIGHTEN TO ALLOW POSITIVE JOINING OF
RAILS. RAISE AND SECURE THE FIRST RAIL BEFORE
CONTINUING WITH INTERMEDIATE RAILS. LEAVE 1/16" OPEN
AT EACH JOINT FOR EXPANSION AND CONTRACTION. INSTALL
TOP RAIL WITH BOLT STOP (3/8" X 2'-1/2") THROUGH TOP HOLE. THE 3/8" BOLTS SUPPLIED ARE WITH RAIL
SUPPORT BRACKET AND TOWER LEG ATTACHMENT HARDWARE.

TO CLIMB: SLIDE TROLLEY ONTO RAIL, ATTACH SAFETY
HARNESS SNUGLY AROUND WAIST WITH "D" RING AT FRONT
REFER TO MANUFACTURER INSTRUCTIONS FOR PROPER
BODY FIT ON THE HARNESS. ATTACH TROLLEY KARABINER
TO "D" RING ON HARNESS. LEAN SLIGHTLY AWAY FROM RAIL
tO DECONGLORE BRAKE LEVER AND CLIMB OR DESCEND IN LIKE
MANNER. RELEASING TENSION AUTOMATICALLY ENGAGES
LOCK.

SIDE VIEW OF RAIL ATTACHMENT

RAIL SUPPORT BRACKET

TITAN LEG

RAIL

SMALL RAIL SUPPORT
(SECT. 2 TO 6)
C/W 3/8" X 3/4" BOLT

MEDIUM RAIL SUPPORT
(SECT. 9 TO 12)
C/W 5/8" X 1 1/2" BOLT

LARGE RAIL SUPPORT
(SECT. 13)
C/W 3/4" X 3 1/2" BOLT

PRE-STAMPED ACCESSORY
HOLE, OR DIAGONAL BRACE
HOLE (SECTION #13)

3/8" X 1" BOLT

21 SOUTHWIELD DRIVE
P.O. BOX 186, ELMIRA
ONTARIO, CANADA N3B 226

TRYLON TSF

TEL: (519) 669-5421
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12.0 INSPECTION AND MAINTENANCE LOG

DATE OF MANUFACTURE: ____________________________________________

RAIL KIT MODEL NUMBER AS SUPPLIED: _____________________________

DATE PURCHASED: ________________________________________________

SITE/LOCATION NAME: ____________________________________________

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13.0 WARRANTY

Supplier warrants that, at time of shipment, the Products furnished by Supplier are free from defects in material and workmanship. Supplier’s obligation under this warranty is limited to repair and replacement of any defective Product within one (1) year from the date of shipment to the first Purchaser.

Supplier shall have the sole discretion as to which of these remedies it shall provide. These warranties shall not apply to any Product which has been subjected to misuse, neglect, alteration, accidental damage, damage or defects attributes after shipment, defects during storage or installation, defects attributable to improper installation or use for purposes other than the Product was intended, and any other defects out of the reasonable control of Supplier.

Seller makes no warranties, guarantees, covenants or representations other than those expressly set out in this Warranty. The warranties and remedies provided herein are Purchaser’s sole and exclusive remedies and are provided expressly in lieu of all other warranties, whether express, implied, or arising by statute or otherwise in law or from a course of dealing or usage of trade, including but not limited to, warranties of merchantability or fitness for a particular purpose.

Purchaser agrees that Supplier’s liability under this Agreement, and any Purchase Order issued pursuant to this Agreement, shall never exceed the purchase price of the line item upon which liability is based. Under no circumstances shall Supplier be liable for consequential, incidental, special, direct, or indirect damages including but not limited to labour costs, installation costs, inconvenience, cost of replacement goods, loss of revenue or profits, or other costs of any nature as a result of the use of Products manufactured by Supplier.

This warranty does not extend to the appearance of corrosion on any of the components where the Product has been subjected to severe physical and/or chemical abrasion due to, but not limited to sandblasting, salt spray or atmospheric conditions classified as “highly industrial” or the equivalent.