INSTRUCTION AND SAFETY MANUAL

IN-8021 : XTIRPA™ Universal Anchoring Post System for PPE

EN

XTIRPA™

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1. THE XTIRPA™ SYSTEM

1.1 About

The XTIRPA™ system is an anchoring device part of an individual protection system designed for the prevention of falls, in case of emergency, for the best working position, for rope access and for access to confined spaces.

⚠ WARNING

The manufacturer of the Innova Public Utility Products, Inc. waives any warranty or responsibility in case of an unauthorized modification, of any improper use, of poor maintenance or of the replacement of a part of the equipment by non-original parts. These actions can lead to serious and possibly fatal injuries to the entire body, or even death.

Any alteration or addition to the equipment must not be carried out without Innova Public Utility Products, Inc.'s prior written consent. Any repair must be made in accordance with the operating procedures of the Innova Public Utility Products, Inc. manufacturer.

This Installation Manual as well as the technical drawings and installation instructions are provided at the time of purchase of the XTIRPA™ system. The user shall make sure these drawings and instructions are included and shall endeavor to keep all these elements for the entire lifetime of the equipment.

If the product is resold outside of the first destination country, it is essential for the user's safety that the reseller provides the user guide, instructions for maintenance, for periodic examination, in the language of the country where the product shall be used.

Please follow the measures detailed in the Work and Safety Code of the applicable country of province where you will be using this anchoring device.

For any question related to the use, maintenance or installation of the XTIRPA™ systems, please contact the Innova Public Utility Products, Inc manufacturer via the contact form on our website: http://www.xtirpa.com.

Please make sure that the following additional information is also provided by the manufacturer or by the authorized distributors:

- Technical drawings
- Installation instructions

1.2 Compliance

Manufacturer:

Innova Public Utility Product, Inc.
1040 boulevard Industriel,
Granby, Québec, Canada
J2J 1A4

EN 795 Configuration System: Type A

The XTIRPA™ system described in this manual is tested in accordance with the requirements of EN 795 2012 by the following laboratory in accordance with the requirements of ISO/IEC 17025 2005.

Quintin Certifications (CE2927)
825 route de Romans
38160 Saint-Antoine-l'Abbaye
France

EN 795 Configuration System: Type B

The XTIRPA™ system described in this manual complies with the requirements of standard EN 795 2012, TS16415 2013, and the European regulation 2016/425 on PPE. The EU examination of Module B type was conducted by the following organization:

Quintin Certifications (CE2927)
825 route de Romans
38160 Saint-Antoine-l'Abbaye
France

The regulation's (EU) 2016/425 appendix VIII (Module D) production inspection is conducted by the following organization:

Quintin Certifications (CE2927)
825 route de Romans
38160 Saint-Antoine-l'Abbaye
France

The anchorage mechanism's statement of compliance can be downloaded on our website at:
https://academy.xtirpa.com/en/certifications

1.3 Capacity, Limits and Design

All the XTIRPA™ systems were designed to function for at least 10 years provided that they have been used, maintained, inspected and stored in accordance with this Manual. The XTIRPA™ system is one the lightest and most ergonomically designed anchorage device on the market today. The davit arm, masts and barricades are made of 6061-T6 aluminum. Some bigger davit arms are made of HSS A-500 stainless steel. The adapters are made of stainless steel SS 304, SS 316, galvanized steel 44 W, or galvanized steel 50 W. The pulleys are made of acetal.

Technical characteristics of the product:

- Manufacturer: ..... Innova Public Utility Products, Inc.
- Brand: ..... XTIRPA™
- Model: IN-8021
- Name: ..... XTIRPA™ Universal Anchoring Post System for PPE
- Standards: ..... EN 795 2012 Type A
EN 795 2012 Type B
TS 16415 2013
- Equipment's maximum arrest force: ..... 6 kN / user
- Maximum service temperature: ..... 54 °C (130 °F)
- Minimum service temperature: ..... -25 °C (-10 °F)
- Elastic deformation: ..... N/A
- Working load limit: ..... 4.8 kN (1080 lbf)

- Type: EN 795 2012 Type A
  - Minimum breaking strength (MBS):
    Vertical: ..... 14 kN (3 147 lbf)
    Horizontal: ..... 28 kN (6 295 lbf)
  - Maximum design moment: ..... 28.7 kN•m (253 767 lbf•in)
  - Permissible work angle: ..... 360°
  - Maximum number of simultaneous users: 3

- Type: EN 795 2012 Type B (Insertion tube)
  - Minimum breaking strength (MBS):
    Vertical: ..... 14 kN (3 147 lbf)
    Horizontal: ..... 28 kN (6 295 lbf)
  - Maximum design moment: ..... 28.7 kN•m (253 767 lbf•in)
  - Permissible work angle: ..... 360°
  - Maximum number of simultaneous users: 3

- Type: EN 795 2012 Type B (Extendable vehicle hitch system)
  - Minimum breaking strength (MBS):
    Vertical: ..... 14 kN (3 147 lbf)
    Horizontal: ..... 14 kN (3 147 lbf)
  - Maximum design moment: ..... 14.3 kN•m (126 863.4 lbf•in)
  - Permissible work angle: ..... 0°
  - Maximum number of simultaneous users: 3

The anchoring device must not be used beyond its limitations or for any purpose other than those for which it was originally intended, which means stopping a fall. It is understood that the anchoring device will only be used for an individual protection system against falls and not for a lifting equipment.

⚠ WARNING

This system was not designed to work with more simultaneous users than intended. A user is defined as being a person who is physically connected to the anchorage connector.

⚠ WARNING

This system cannot be used simultaneously to transport equipment it when the users are physically connected to the anchorage connector.

1.4 Warranty

The XTIRPA™ system, offered by the Manufacturer, Innova Public Utility Products, Inc., is warranted against all defects in workmanship and materials for a (2) two-year period from the date of delivery, and this warranty only applies to the XTIRPA™ system's initial buyer. The manufacturer will rapidly repair and replace all the components or pieces deemed to be faulty. The manufacturer reserves the right to choose to return any part deemed to be faulty to its plant/factory so that it may be inspected before any replacement or repair is made.

Only components and parts deemed faulty by the Manufacturer, at its sole discretion and further to any inspection required and performed by the Manufacturer, shall be either repaired or replaced by the Manufacturer.

Any claim must be sent in writing to the Manufacturer immediately upon discovery of the problem by the owner and must be accompanied by a copy of the initial buyer's proof of purchase. The Manufacturer will issue a claim number and give precise instructions that will have to be followed in order to successfully make a claim and return all the defective parts, at the customer's request. The owner will collaborate with the Manufacturer and its representatives in order to facilitate the inspection of all allegedly faulty parts. All the shipping costs to return the faulty parts and components to the Manufacturer's factory shall be paid by the owner. The shipping costs for the replacement parts or components are paid by the Manufacturer.

The Warranty does not cover damages caused by the equipment coming from any other cause other than defects in material or workmanship including, but not limited to, any damage resulting from abuse, lack of maintenance, improper manipulation or storage, any voluntary damage, vandalism or accidental damage or damage resulting from a shock or a collision, any damage due to transport, any damage caused by a fire, an explosion, vapors, chemical substances or environments, toxic or corrosive, water, normal corrosion or rust, storms, hail or any other act of God, any war or insurrection, terrorism act or any other damage out of the Manufacturer's control. The warranty only applies to the initial customer, is the only warranty that applies to the XTIRPA™ system and replaces all other explicit or implicit warranties. Without limiting the generality of the foregoing, the Manufacturer will not be held for any costs, damages or claims, including special or consequential damages, accessory or indirect such as, but not limited to damages, shortfalls or losses in revenue, commercial interruptions, physical injuries because of the failure to respect all the obligations, including those made in good faith or because of due diligence, because of negligence and for any other pecuniary loss or any other loss, resulting from or associated with the use or the incapacity to use the XTIRPA™ system, even in case of an eventuality or a failure, of tort (including negligence), of an absolute responsibility, of a breach of contract or of breach of warranty, even if the Manufacturer was notified of the possibility of such damages. The manufacturer hereby disclaims all warranties and conditions, explicit, implicit or legal including, but not limited to all the implicit warranties or conditions of merchantability and fitness for a particular purpose and lack of skill or any willful or negligent act, omission or trade effort.

The User must fill and send the subscription form for the limited warranty of each product. Please make sure that the date of purchase of the Manufacturer's XTIRPA™ system or of the Service Center is indicated.

2. SYMBOLS

⚠ WARNING

Indicates a dangerous situation which, if it not avoided, could lead to death or a dangerous injury.

⚠ CAUTION

Indicates a dangerous situation which, if it not avoided, could lead to a minor or moderate injury.

Indicated the safe working condition.

Please read and understand this system's operating manual before using it.

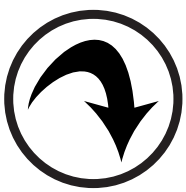
An anchor point authorized on the system indicating the maximum number of simultaneous users, wearing their harness. The system can also be used to lift and lower users.

The system can be used to lift and lower users.

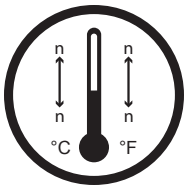
The system cannot be used to lift and lower users.

The system's equipment must be installed by a qualified person in accordance with the manufacturer's instructions.

Please perform a visual inspection before any use, in accordance with the manual's instructions. Please do not use the system in case of doubt regarding its safe use.

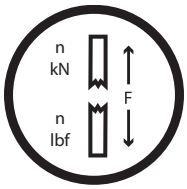


Maximum working moment (MWM).



Minimum and maximum service temperature.

Maximum working load.



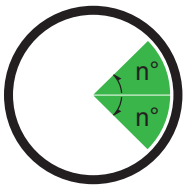
Minimum breaking strength (MBS).

Required tightening for bolt.

Equipment maximum arrest force (MAF).

The positioning pins must be installed before use.

Minimum breaking strength (MBS) of 22.2 kN (5 000 lbf).



Permissible working zone.

It is forbidden to install more than (1) user on the same anchor point.

3. REQUIREMENTS IN TERMS OF SAFETY

3.1 Training

To ensure safe work, each user must be trained and qualified. You can contact the Manufacturer Innova Public Utility Products, Inc., or the authorized Service Center in order to configure a training program.

The users must have read and understood the Manual. They must be in good health and judge to be mentally stable; they must not have vertigo and must not be under the influence of drugs or alcohol so that their safety may not be hindered during normal use of the equipment or in case of an emergency.

3.2 Precautions for Use

Before any use, a safety plan must be established in order to face any emergency that could arise during use. It should of course be noted that prior to and during the use of this equipment, that any eventual rescue must be done in a safe and efficient way. It is therefore important to always work in teams of at least two (2) people when you are using this anchoring device. One of the two (2) users can call the emergency services in case of a fall.

Each user must be equipped with a full body harness. This is the only body-gripping device that is permitted to be used in a fall arrest system (FAS) along with a means of limiting the maximum dynamic forces exerted on the body when stopping a fall. Refer to table "1.3 Capacity, Limits and Design" on page 6 for the equipment's maximum arrest force.

It is also not advisable to wear any additional work safety equipment such as, but not limited to a hard hat, safety glasses, leather gloves, protective clothing, work boots and any pocket lamps and any respiratory protective device available.

⚠ WARNING

Prior to any use and to ensure safety, it is imperative that you check the clearance below the user in the work place, so that in case of a fall, no collision with the ground can occur and no obstacle can be found on the trajectory.

In order to ensure that it is usable and that it functions correctly, the user will have to verify before each use that:

- The system does not present any excessive wear, cracks or traces of corrosion
- The anchoring plates (base) A2002-22N and the anchor points do not show any deformation.
- The connection pins are present and properly installed.
- The nuts and bolts are tightened properly
- The labels are present and can be read.
- The system is valid and the date of the last or next inspection is indicated.

⚠ WARNING

If the system has arrested a fall or has been damaged, it will then have to be immediately removed from service. Please state clearly that the fall protection system is “UNUSABLE.” It will then have to go through a proper inspection and maintenance, in accordance with section "6. INSPECTION, MAINTENANCE AND STORAGE" on page 28. It can only be reactivated if a qualified person, a certified service center or the manufacturer authorizes is use in writing.

3.3 Authorized Connection

EN

This anchoring device can be used in conjunction with the following equipment:

- Automatic fall prevention device compliant with EN 360 in accordance with the Manufacturer's operating instructions.
- Lifting rescue device compliant with EN 1496 in accordance with the Manufacturer's operating instructions.
- Shock absorber compliant with EN 355 in accordance with the Manufacturer's operating instructions.

The above-mentioned equipment must be linked to the sternal and dorsal points noted in A or A/2 or the fall arrest harness compliant with EN 361 by a connection element compliant with EN 362.

⚠ WARNING

Please verify prior to any use that all of the equipment used in the fall arrest system (fall arrest harness compliant with EN 361, automatic fall prevention device compliant with EN 360, shock absorber compliant with EN 355 and connection elements compliant with EN 362) is working correctly as per the Manufacturer's operating instructions. A potential danger may exist when several items are used together, whose safety features may affect or interfere with each other.

3.4 Lifting of Materials

The anchor device should only be used for personal fall protection equipment and not for lifting equipment. The product shall not be used simultaneously to lift equipment (material) and as a PPE (Personal Protective Equipment). Some jurisdictions may prohibit the use of a PPE to lift equipment (material) altogether. If so, this product must be labeled as to be used only to lift equipment (material) and may no longer be used as a PPE. Never exceed the 328 kg (722 lb) for lifting equipment (material).

4. INSTALLATION

Prior to any installation, please contact the manufacturer Innova Public Utility Products, Inc or one of its authorized distributors to determine the optimal installation process and configuration for your application. Please follow all the technical and fastening installation instructions provided by the manufacturer Innova Public Utility Products, Inc.

In certain applications, the commissioning of the XTIRPA™ system may require additional precautions to:

- Limit the risk of a fall during the installation by putting in place an additional anchoring device.
- Limit the possibility of damages to the system, as is the case when using the system under excessive heat or humidity, in a corrosive or chemical environment, in close proximity to a high voltage power line, in a toxic or explosive atmosphere (non-exhaustive list).
- Avoid any injury to the user by limiting the use when there is a risk of falling objects and by taking all the necessary precautions regarding the tilting effects in case of a fall.

⚠ WARNING

To ensure safety, the anchoring device must always be placed correctly, and the work must be performed in a way that reduces the risk of falls as well as the height of falls. To ensure optimal use, it is preferable that the anchoring device must imperatively be placed above the user's position.

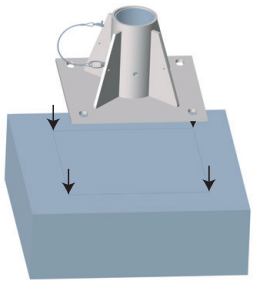
⚠ WARNING

We advise users to avoid environmental hazards. Frequent inspections are required during the presence of environmental risks. Please refer to section "5. USE" on page 23 to learn more.

4.1 Type A System Installation

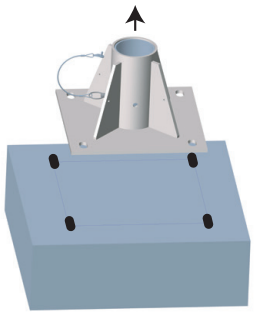
Contact the manufacturer or distribution center for the moment, the installation bolt type, and the torque setting specifications for the individual adapter. The installer must ensure that the receiving surface can withstand the system's moment applied on the adapter's fasteners in case of a fall. Refer to the minimum breaking strength (MBS) value (vertical) in section "1.3 Capacity, Limits and Design" on page 6.

01



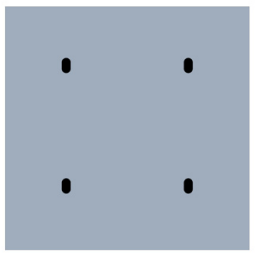
Temporarily place the adapter in the desired location and mark the location of the installation holes.

02



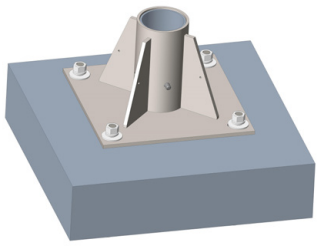
Remove the adapter and drill the installation holes with a drill and a drill bit according to the required diameter.

03



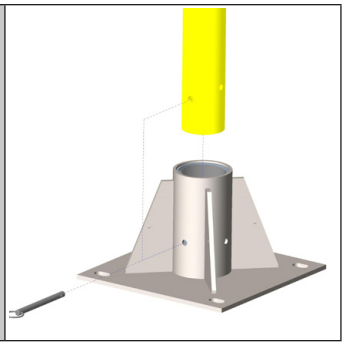
Clean the installation holes following the bolt manufacturer's instructions.

04



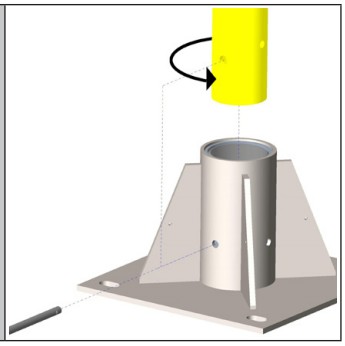
Install the adapter and tighten the installation bolts following their individual instructions.

05



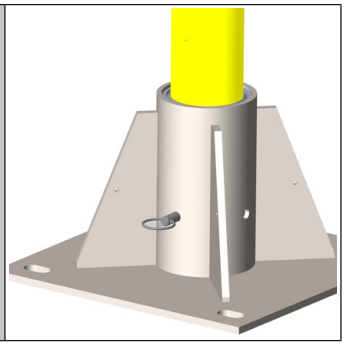
Insert the A5032-01 post in the adapter and ensure that the pin holes are aligned.

06



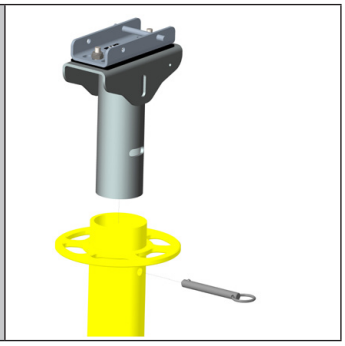
The post can be turned to the desired location by 45° increments.

07



Insert the pin in the hole to fix the post within the adapter.

08

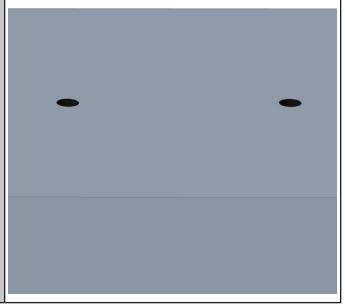


Insert the A5032-07 winch support into the post and insert the pin in the hole to secure it.

4.2 Type B System Installation (Insertion tube)

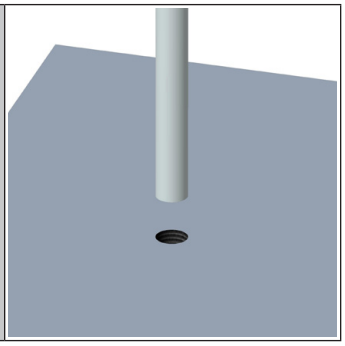
The system must be installed on a stable and level surface and must not be installed on uneven surfaces, including but not limited to sand, grass, gravel, and rocks. The installer must also ensure that the receiving surface can withstand the strength applied in the direction of the load in case of a fall. Refer to the minimum breaking strength value (vertical) in section "1.3 Capacity, Limits and Design" on page 6.

01



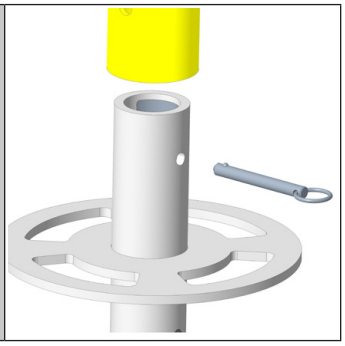
Holes will have to be drilled in the ground to insert the anchor post. Make sure the chosen location for the anchor posts is composed of stable rock.

02



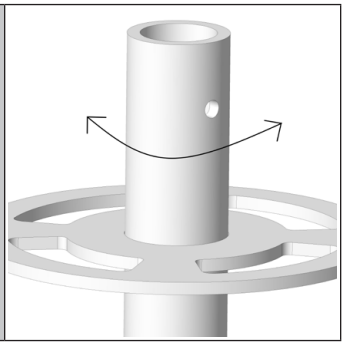
Insert the insertion tube into the drilled hole.

03



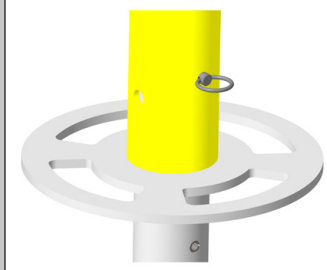
Insert the A5032-01 post in the insertion tube and ensure that the pin holes are aligned.

04



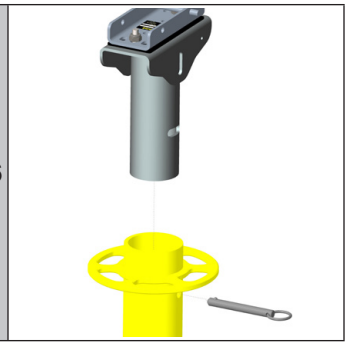
The post can be turned to the desired location by 45° increments.

05



Insert the pin in the hole to secure the post to the adapter.

06

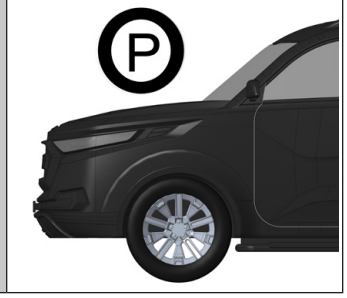


Insert the A5032-07 winch support into the post and insert the pin in the hole to secure it.

4.3 Type B System Installation (Extendable vehicle hitch system)

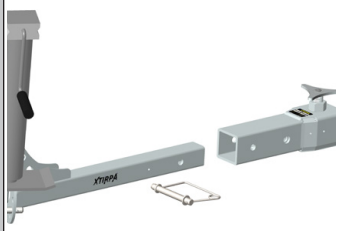
The installer must ensure that the receiving surface can withstand the system's moment applied on the adapter's fasteners in case of a fall. In addition, the installer must ensure that the receiving surface can adequately withstand the load of the vehicle and that it is level. Consult the minimum breaking strength value (MBS) (vertical) in section "1.3 Capacity, Limits and Design" on page 6.

01



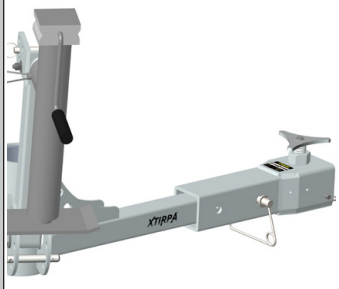
Ensure that the vehicle is parked before beginning installation of the system configuration.

02



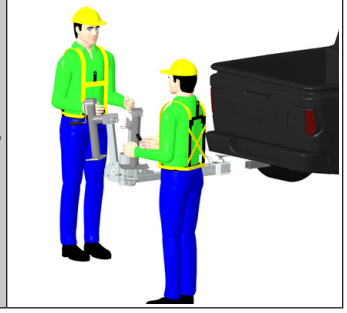
Insert part IN-2517 into the end of A5032-15.

03



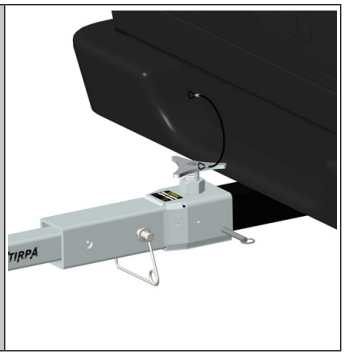
Insert the pin into the hole to secure them.

04



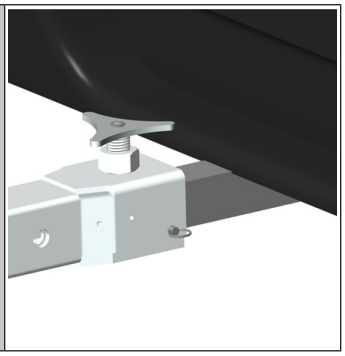
Install all the parts onto the vehicle's trailer hitch. This operation should be performed with the help of a second person.

05



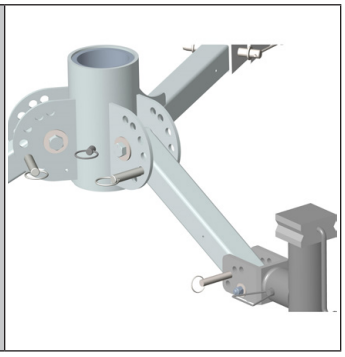
Insert the pin into the hole to secure the connection.

06



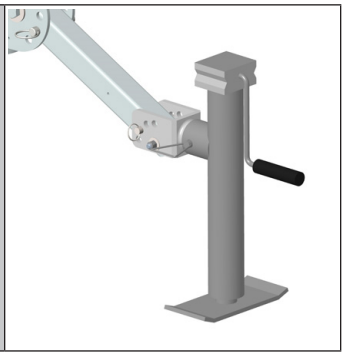
Tighten the knob on IN-2517 to lock it.

07



Bring the legs down to an adequate height when removing the pins.

08

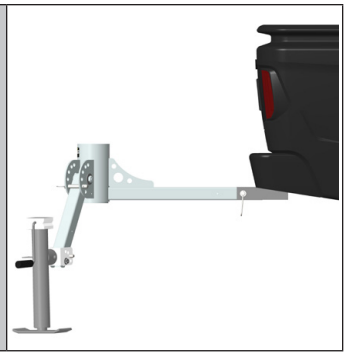


Insert the pins into the holes to attach the legs.

09

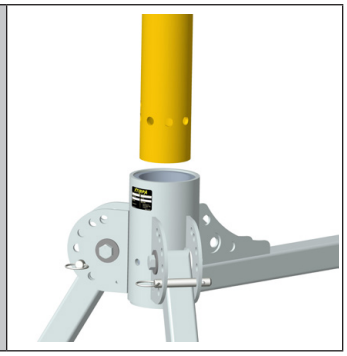
Raise the legs by tightening the twistgrip. Tighten until they stop moving.

10



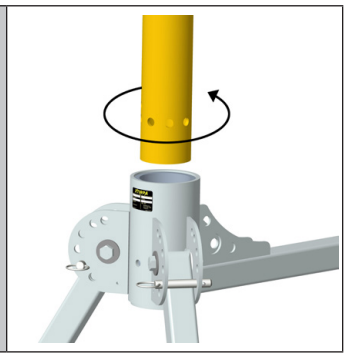
Ensure that all the parts IN-2517 and A5032-15 are level.

11



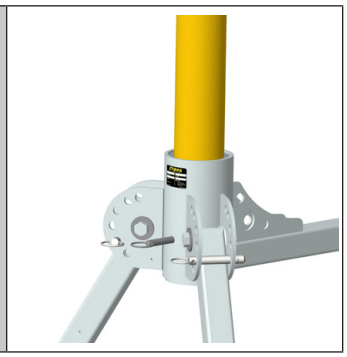
Insert the A5032-01 post into A5032-15 and ensure that the pin holes are aligned.

12



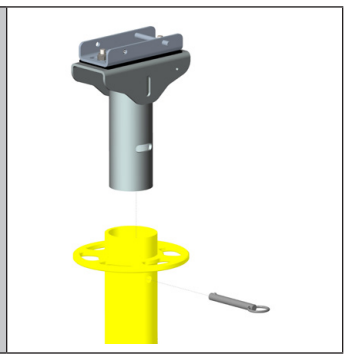
The post can be turned to the desired location by 90° increments.

13



Insert the pin into the hole to secure the post within the adapter.

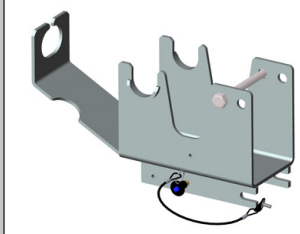
14



Insert the A5032-07 winch support into the pznd insert the pin into the hole to secure it.

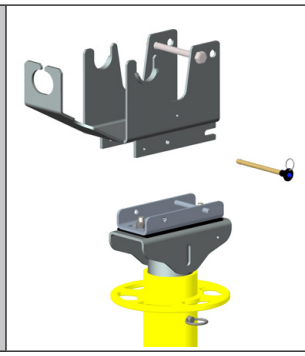
4.4 Installation of a lifeline or a device with automatic recall for all system configurations

01



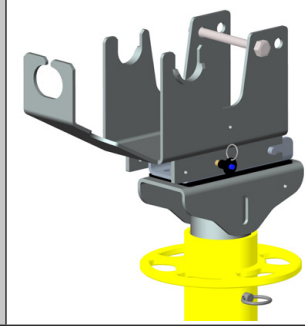
Make sure you have the right mounting bracket for the winch model you wish to use. The user must contact the manufacturer or a distribution center to find the right mounting bracket for your winch model.

02



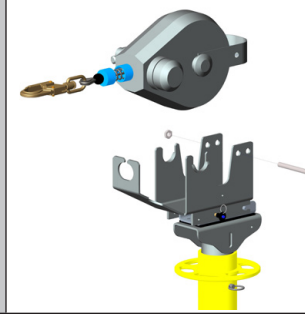
Installation of a lifeline or a device with automatic recall will be made on anchorage point 1. Please refer to section "5.1 Anchor Points" on page 24 for more information.

03



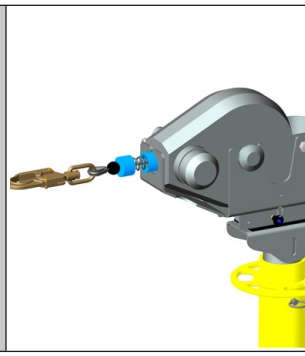
Install the mounting bracket for the winch model and insert the pin to secure it.

04



Install the lifeline or the device with automatic recall onto the winch bracket.

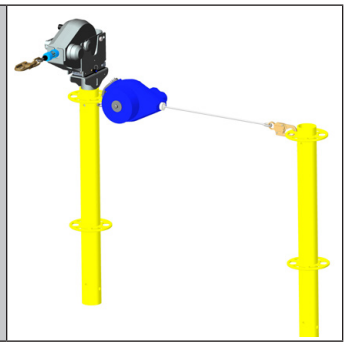
05



Use the locking pin to lock in the lifeline or the device with automatic recall.

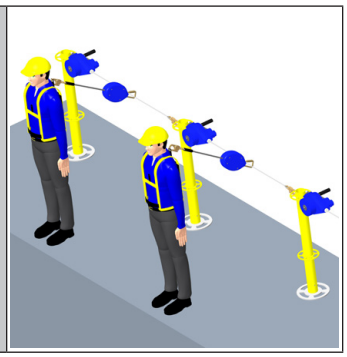
4.5 Installation of a horizontal lifeline for Type A and Type B (Insertion tube) Adapter Systems

01



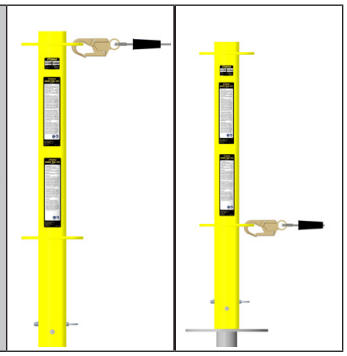
The system can be used to establish a horizontal lifeline. It can be connected in series via a tensed line.

02



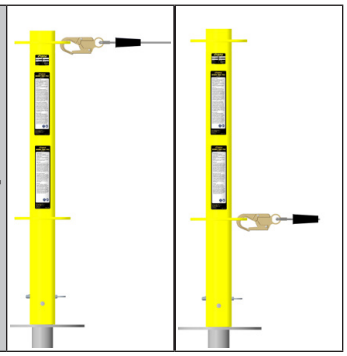
The following illustration shows multiple systems connected in series.

03



Installation of a horizontal lifeline will be made on anchorage point 2 or 3. Please refer to section "5.1 Anchor Points" on page 24 for more information.

04



The maximum strength (S) generated in the case of a fall at the ends of the horizontal lifeline must not exceed the maximum strength in the design of the equipment described in section "1.3 Capacity, Limits and Design" on page 6.

05

Attach your fall protection device to a ring or on the temporary lifeline while observing the maximum loads allowed as well as the number of users.

06

Following installation, there should be a schematic plan as described in section "8.5 Schematic plan of the installation" on page 39 posted to the building so that everyone can see it. While several anchorage points must be photographed for identification purposes, it is recommended to mark the anchorage devices with numbers and write these numbers down in the anchorage device's inspection files, as well as the installation zone's ground plan.

5. USE

⚠ WARNING

The section "3. REQUIREMENTS IN TERMS OF SAFETY" on page 10 must be read and followed closely. Not doing so may cause injuries, including death.

⚠ WARNING

Make sure you avoid any fall or impact coming from objects in trajectory of the fall or in its vicinity. Always remove any obstructions located under the work zone to ensure that the fall trajectory is clear. Please make sure that the work zones are free of debris, obstructions, tripping hazards, spills or any other risks that may hamper the safe use of the anti-fall system. DO NOT use the system before the work environment has been inspected by a qualified and competent person and he/she has determined that the risks identified could be eliminated and the exposure to could be avoided.

Work directly under the anchor/connector, if possible. The free fall distance and the risk of falls increases when you are not working directly under the anchor/connector. A full-body harness is the only acceptable body holding device that can be used in a fall arrest system.

⚠ WARNING

This system cannot be used under the influence of drugs or alcohol.

5.1 Anchor Points

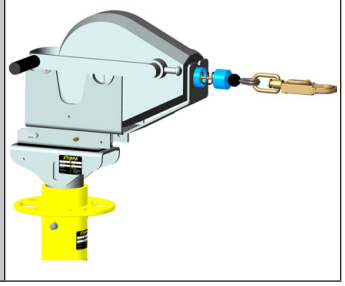
The anchor points of this system are listed below. These points have been tested and licensed for the maximum number of simultaneous users indicated at section "1.3 Capacity, Limits and Design" on page 6 as well as on the instructions.

5.2 Multi-users

The maximum number of simultaneous users can change according to the system configuration. Please refer to section "1.3 Capacity, Limits and Design" on page 6 for the maximum number of simultaneous users for each system configuration.

5.3 Utilization of a lifeline or a device with automatic recall for all system configurations.

01



Anchorage point 1 is designed to be used with a device with automatic recall. Please use an approved device with automatic recall in compliance with the applicable standards.

02

Anchorage points 2 and 3 are designed to be used with lifelines installed with carabiners or pressure hooks. Please refer to section "5.1 Anchor Points" on page 24 for more information.

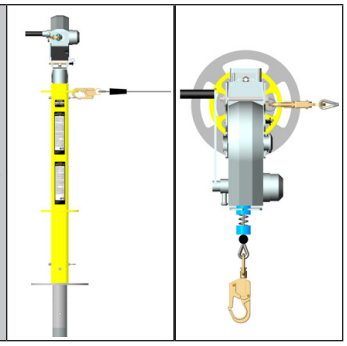
03

In the case of a fall, rescue may be performed with a recovery winch placed on anchorage point 1. Please use an approved device with automatic recall in compliance with the applicable standards.

04

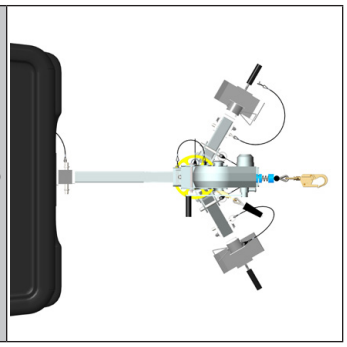
The permissible working space is unique to each configuration of your system. It is imperative that the system users position themselves so that, in the case of a fall, the system stops the fall in the permissible or authorized working space. Refer to the chart "1.3 Capacity, Limits and Design" on page 6 for the permissible working spaces for all of your system configurations.

05



A user can attach onto the fixed and mobile (insertion tube) adapter systems in any direction. The system is designed to be used in any horizontal direction within a 360-degree radius.

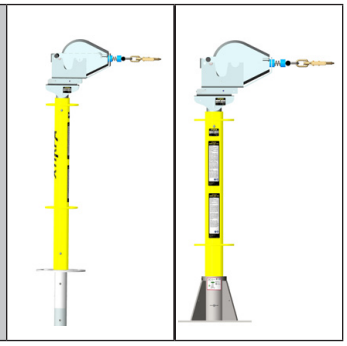
06



The mobile adapter system (Extendable vehicle hitch system) is only authorized to be used in the direction shown in the photo. The users must position this configuration in orientation with the working direction.

5.4 Utilization of a horizontal lifeline for Type A and Type B (Insertion tube) Adapter Systems

01



Fixed and mobile (insertion tube) adapter systems can be used to install horizontal lifelines.

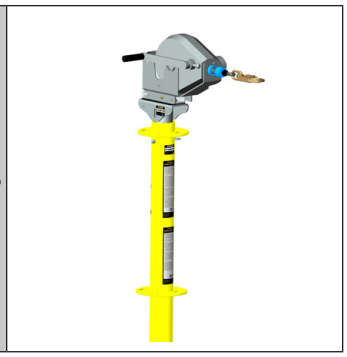
02

The configurations are connected in series as illustrated in the photo.

03

The anchorage points 2 and 3 are designed to be used with lifelines installed with carabiners or pressure hooks.

04



In the case of a fall, rescue may be performed with a recovery winch placed on anchorage point 1. Please use an approved recovery winch in compliance with the applicable standards.

6. INSPECTION, MAINTENANCE AND STORAGE

All the systems were designed to function for at least 10 years provided that they have been used within the limits of its design, as well as maintained, inspected and stored in accordance with this manual. Any system must immediately be removed from circulation if the safety is questioned or if it was used to arrest a fall. It will then have to go through a proper inspection and maintenance, in accordance with this section.

6.1 Inspection

It is required to carry out a visual inspection of the anchoring device before using it to make sure it has no damage or defect. It is also required to carry out an annual inspection of the system by a qualified or competent person, according to the manufacturer's requirements or those of the service center. It is recommended to increase the frequency of these verifications when increasing the use of the system. These periodic verifications are necessary since user safety is directly related to regular maintenance or the repairing of system components.

Following every annual inspection, a label with the date of the last or the next annual inspection should be affixed on the equipment. If one of the damages or defects described above if observed, please contact a service center or the manufacturer to obtain help.

6.2 Maintenance

During a visual or annual inspection, the general condition of the system must be inspected, including the adapter, for the presence of cracks, excessive dirt, rust, warping or excessive wear. Make sure all necessary parts and components, including pins and straps are present. Ensure that all the bolts and nuts are properly tightened and all the labels can be read. Regularly clean the system components with water and a soft detergent. New labels can be obtained upon request. The results should be recorded in writing on the maintenance and inspection sheet.

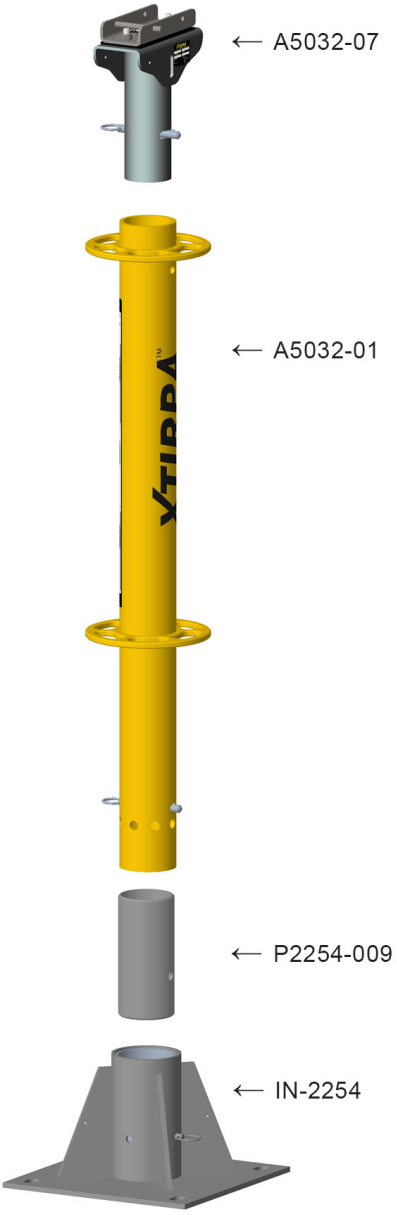
Equipment maintenance can be done by a competent or qualified person, as well as a service center or the manufacturer. Equipment repair must be done exclusively by a service center or the manufacturer. Repairs will be supported for the design life of the system, after which they will no longer be supported.

6.3 Storage

Store the system in a dry and clean place, away from direct sunlight. The system must not be in contact with corrosive or aggressive materials, nor stored in extreme temperatures. It is recommended to store and transport the anchoring device and its components in a specific packaging that can be obtained from the Manufacturer Innova Public Utility Products, Inc. or one of its authorized resellers.

7. COMPONENTS

7.1 Type A System

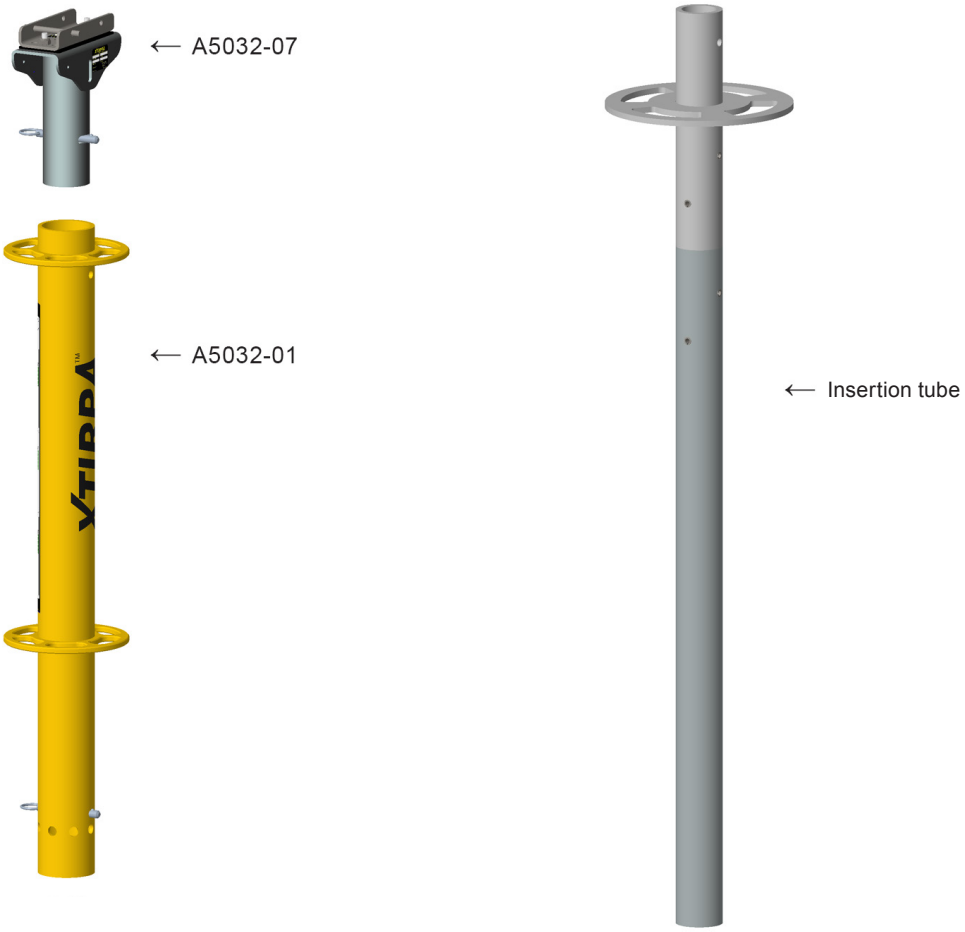



← A5032-07
← A5032-01
← P2254-009
← IN-2451


← A5032-07
← A5032-01
← IN-2570

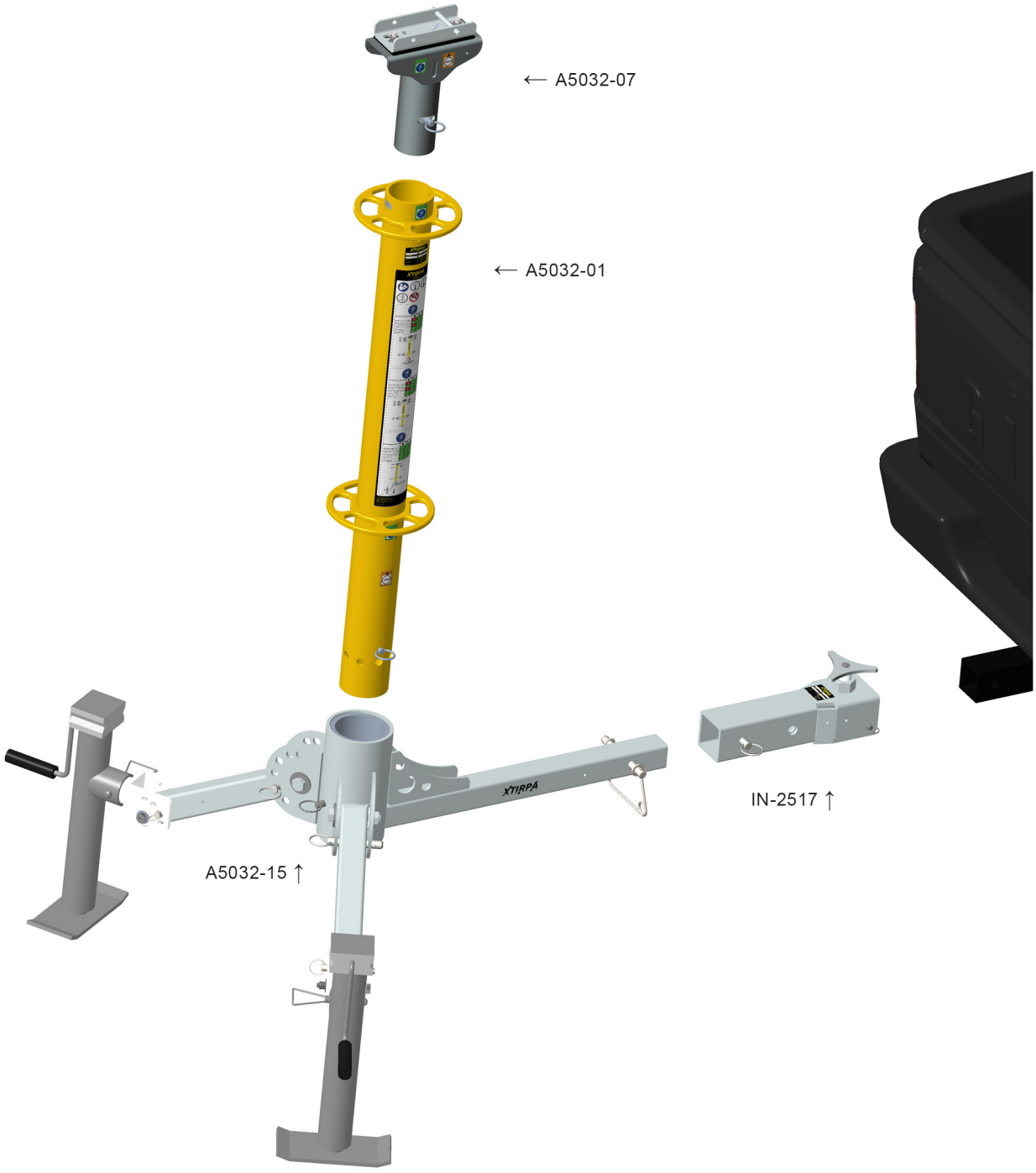
7.2 Type B System (Insertion tube)

Holes must be drilled into the ground to insert the anchor post. Holes must be drilled at a depth and diameter in accordance with the chart below. Ensure the location chosen for the anchor posts is made up of stable rock.



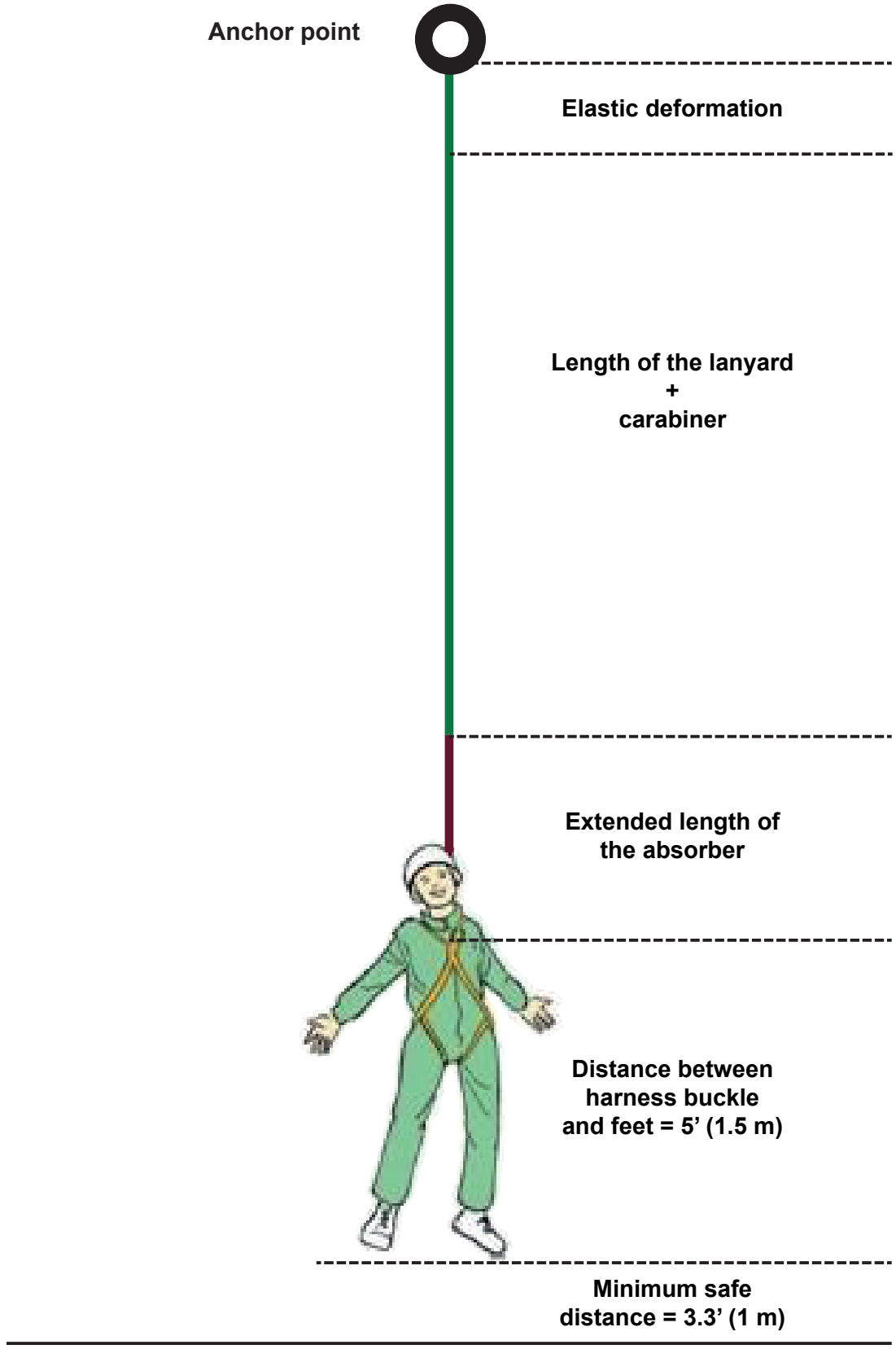
no.	Drilling depth		Drilling diameter					
	in	mm	in			mm		
	min.	**min.**	**min.**	**no.**	**max.**	**no.**	**min.**	**max.**
A5032-35	53,1	1349	3,2	3,5	4	81,28	88,9	101,6
A5032-40	53,1	1349	3,7	4	4,5	93,98	101,6	114,3
A5032-45	53,1	1349	4,2	4,5	5	106,68	114,3	127
A5032-50	53,1	1349	4,7	5	5,5	119,38	127	139,7
A5032-55	53,1	1349	5,2	5,5	6	132,08	139,7	152,4
A5032-60	53,1	1349	5,7	6	6,5	144,78	152,4	165,1
A5032-65	53,1	1349	6,2	6,5	8	157,48	165,1	203,2
A5032-80	53,1	1349	7,7	8	8,5	195,58	203,2	215,9

7.3 Type B System (Extendable vehicle hitch system)

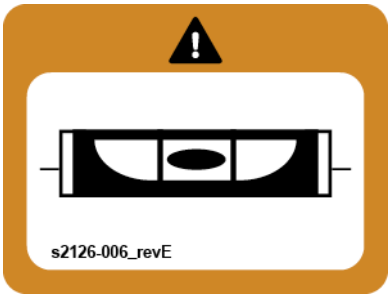


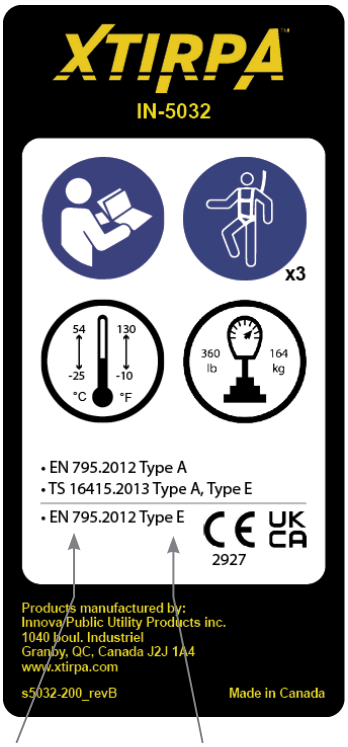
8. APPENDIX

8.1 Calculation for ground clearance



8.2 Labels

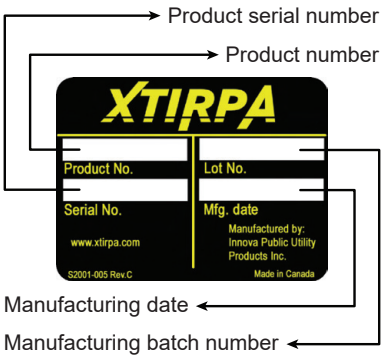


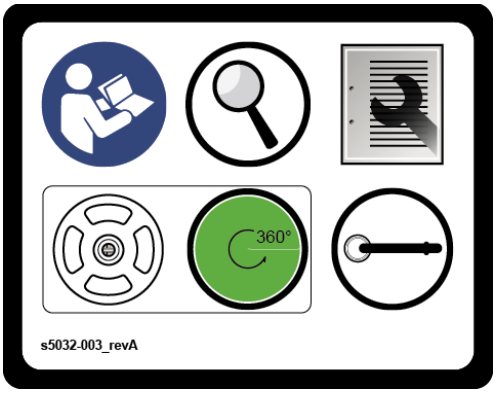


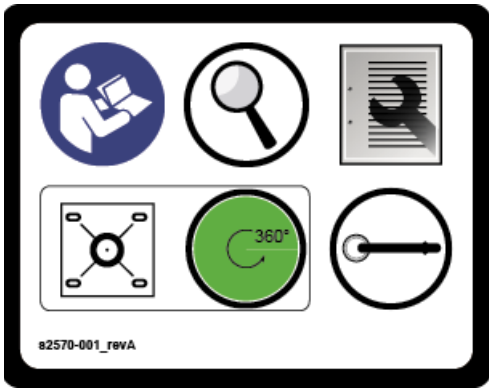
Accredited standard No.

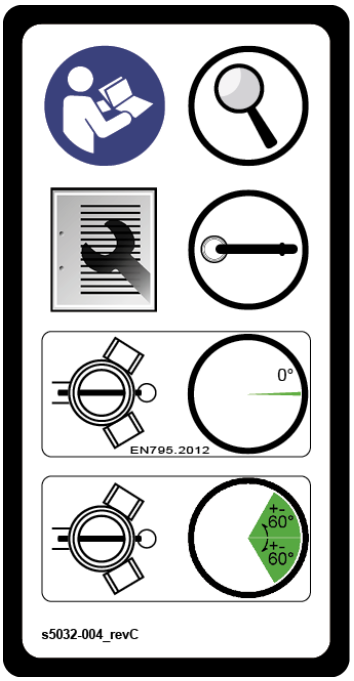
Product standard information

SERIAL NUMBER LABEL




360°
s5032-003_revA


360°
s2570-001_revA


0°
EN795.2012
+-
60°
+-
60°
s5032-004_revC

8.3 Inspection and maintenance form

XTIRPA™

MAINTENANCE AND INSPECTION LOG

Innova
Produits de Services Publics - Public Utility Products inc.

Product: ____________________ Purchasing date: ____________________

Model number: __________ Serial number: __________ Manufacturing date: ____________________

Date of next inspection: ____________________ Date of 1st use: ____________________

INSPECTION DATE	LABELS	CORROSION	STRUCTURAL DAMAGE	WELDING	PINS & HARDWARE	OTHER (SPECIFY)	CORRECTIVE ACTION TAKEN (if required)	INSPECTED BY:
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			
	☐	☐	☐	☐	☐			

COMMENTS: ____________________

*Any failure to follow the Manufacturer's instructions contained in the Instruction and safety manual, including with regard to the inspection and maintenance of the XTIRPA system and of components and parts there of, will cause warranty to become null and void and may result in serious injury or death of the user, for which the Manufacturer disclaims all warranties and liabilities whatsoever, user, owner and purchaser of the XTIRPA system waiving all claims, rights and recourses against Manufacturer and derived there from.

Manufactured by: INNOVA Public Utility Products Inc. 1040 boul. Industriel, Granby, Quebec, Canada J2J 1A4 Tel: (450) 777-1240 Fax: (450) 372-9936

XTIRPA™ REGISTRATION LIMITED WARRANTY FORM

Innova
Produits de Services Publics - Public Utility Products inc.

This warranty applies only to the original purchaser and is the only one applicable to the Xtirpa System, and is in lieu of all other warranties, expressed or implied. The purchaser has to complete and return to INNOVA Public Utility Products Inc., all information within thirty days of purchase. Otherwise limited warranty will be void, if the product is not registered.

Register now: Mail or fax this registration form or visit our web site and register online.
Mail: INNOVA Public Utility Products Inc., 1040, boul. Industriel, Granby J2J 1A4
Fax: (450) 372-9936
Web site: www.xtirpa.com

XTIRPA PRODUCT

Model number:_____ Purchasing date: _____

Serial number: _____ Manufacturing date:_____

CUSTOMER / USER INFORMATION

Company: _____ Phone: _____

Street address: _____ Fax: _____

City: _____ State: _____ E-Mail: _____

Zip: _____

Name: _____ Do you wish to be on Innova's mailing list

Position:_____ for new product literature: YES ☐ NO ☐

*Any failure to follow the Manufacturer's instructions contained in the Instruction and safety manual, including with regard to the inspection and maintenance of the XTIRPA system and of components and parts there of, will cause warranty to become null and void and may result in serious injury or death of the user, for which the Manufacturer disclaims all warranties and liabilities whatsoever, user, owner and purchaser of the XTIRPA system waiving all claims, rights and recourses against Manufacturer and derived there from.

Manufactured by: INNOVA Public Utility Products Inc. 1040 boul. Industriel, Granby, Quebec, Canada J2J 1A4 Tel: (450) 777-1240 Fax: (450) 372-9936

8.5 Schematic plan of the installation

Schematic plan of the installation

Building/Structure

Address: _____ Type of order: _____

Notes: _____ Shape of the roof: _____

Order number: _____ Anchoring device: _____

Client

Name: _____ Telephone number: _____

Address: _____ Contact: _____

Installer

Name: _____ Chief installer: _____

Address: _____ Telephone number: _____

Anchoring device

Manufacturer: _____

Model/type of identification: _____

Building's component

Component 1: for example, concrete ceiling _____ Minimal thickness: for example: 250mm _____

Component 2: for example, concrete post _____ Minimal thickness: for example: 500mm _____

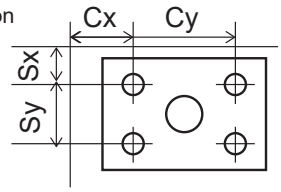
Construction material: for example, reinforced concrete _____ Quality: for example: C25/30 _____

Fasteners/studs

☐ Data related to the fasteners

Data not required in case of a transversal fastener

Real situation



Diameter of the drill hole: _____ mm

Depth of the drill hole: _____ mm

Torque: _____ Nm

Distance of the Cx edge: _____

Sx axial spacing: _____

Cy : _____

Sy : _____

Type : _____

Material: _____

Minimal distance from edge (c): _____

Minimal axial spacing (s): _____

Minimal thickness of the component: _____

Admissible tensile strength: _____

Admissible breaking strength: _____

Notes: _____ ☐ Hammer

Drilling method: _____ ☐ Rotating

Trial device: _____ ☐ Torque wrench

☐ Cleaning of the drill hole ☐ System ☐ Humid ☐ Dry

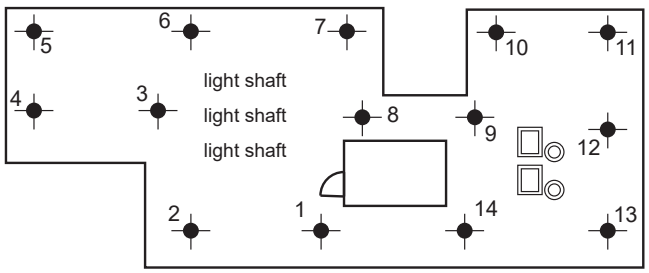
☐ Trial device for the fasteners ☐ Yes ☐ No

☐ Impact ☐ Yes ☐ No

Control list:

- ☐ Substrate, subject to exceptions (no doubt on the capacity)
- ☐ The installation respects the manufacturer's instructions
- ☐ Recommended fasteners used
- ☐ All the fasteners photographed with an identification number
- ☐ Visible fasteners
- ☐ Installation plan affixed on site
- ☐ Immobilization of the screws by mounting holes
- ☐ Additional details _____

Floor plan of the roof:



Breakout strength (kN), torque required (Nm)?

Anchorage point 1 _____ Anchorage point 5 _____ Anchorage point 9 _____ Anchorage point 13 _____

Anchorage point 2 _____ Anchorage point 6 _____ Anchorage point 10 _____

Anchorage point 3 _____ Anchorage point 7 _____ Anchorage point 11 _____

Anchorage point 4 _____ Anchorage point 8 _____ Anchorage point 12 _____

Additional fasteners: _____

Notes from the Chief installer: _____

Date: **Signature:**

NOTES

NOTES

NOTES

XTIRPA™

CONFINED SPACE SAFETY SOLUTIONS

Head Office and Manufacturing Plant
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