

XTIRPA

**INSTRUCTION AND SAFETY MANUAL
XTIRPA™ 1067mm (42") PORTABLE MANHOLE
GUARD SYSTEM FOR PPE**

**UNIVERSAL RESCUE SYSTEM
IN-8002**

XTIRPA™



TO BE READ AND UNDERSTOOD BY USER PRIOR TO EACH USE

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Produits de Services Publics - Public Utility Products inc.

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Numéro: **MU8002-002ANG Rev1 2016**

INTRODUCTION

WARNING

The XTIRPA™ System is part of a personal protection equipment system for fall protection, work positioning, or rescue, for use in confined spaces.

The user must read, understand and follow the manufacturer's instructions for each component or part of the complete XTIRPA™ System. These instructions must be provided to the user of the XTIRPA™ System. The user must read and understand these instructions before using the XTIRPA™ System. The manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of the XTIRPA™ System or of any component or part thereof or failure to follow instructions may result in serious injury or death, 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 the manufacturer and derived therefrom.

The XTIRPA™ System was designed for persons needing a personal protection equipment system for fall protection, work positioning, or rescue, for use in confined spaces. The XTIRPA™ System is intended to act as a support structure or anchorage for these uses. Due to its conception and the use of an advanced composite, the XTIRPA™ System is one of the lightest and most ergonomic systems of its kind on the market. The XTIRPA™ System is in compliance with ANSI, OSHA, CE and CSA standards. The equipment has been tested in accordance with applicable requirements of the standard EN 795:2012 Type B.

IMPORTANT: The buyer must complete and return the limited warranty registration form.

Always keep this Instruction and safety manual available to any worker needing to use the XTIRPA™ System.

Before each use, the user must read, understand and follow the manufacturer's instruction and safety manual.

Keep instructional and safety labels apposed on the XTIRPA™ System and components and parts thereof clean and legible at all times. Clean or replace if required. New labels can be obtained upon demand.

Establish a regular training program on the XTIRPA™ System for new & experienced workers, as further recommended in this Inspection and safety manual. Establish a detailed inspection program for the XTIRPA™ System and document findings, as further recommended in this Instruction and safety manual. Always inspect the XTIRPA™ System before each use and at least once a year by a competent person.

The XTIRPA™ System and its components and parts have labels indicating the maximum capacity of each. Exceeding said maximum capacity may result not only in damages to the XTIRPA™ System or components or parts thereof but also in serious injury or death, 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 the manufacturer derived therefrom.

The XTIRPA™ Universal Safety system IN-8002, including components IN-2108, 1067mm (42") Portable Manhole Guard for Fall Protection & Retrieval and IN-2210, Davit Arm for Fall Protection and Retrieval Including Secondary Block, conforms to document number MU8002-002ANG Rev1 2016.

APAVE SUDEUROPE SAS (Headquarters: 8 rue Jean-Jacques Vernazza—Z.A.C. Saumaty-Séon - CS 60193 - 13322 MARSEILLE CEDEX 16) is the notified body involved in the initial production and certification control phase.

DESCRIPTION & INTERPRETATION OF MARKING SYMBOLS



This symbol is used to alert the user to a potential hazard. The safety of the worker is in jeopardy. It is imperative to follow the manufacturer's recommendations.



This symbol asks the user to read and understand the manual for this product before use.



This symbol specifies that the system should be used by a single user.

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APPLICATION

The **XTIRPA™** System, and its many components and parts (including davit arm and manhole guard), are intended to be used as part of a personal protection equipment system for fall protection, work positioning, personnel handling, materials handling, or rescue, for use in confined spaces. The **XTIRPA™** System is intended to act as a support structure or anchor for these uses.

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RESTRICTIONS

a) **CAPACITY:** The maximum working load for this product is 420 lbs(190 kg).
According to (ANSI, OSHA, CSA).

According to **EC** (EN 795: 2012), use an EN-360 and/or EN-363 fall protection system or an EN-1496 recovery system.

b) The manufacturer attests that anchoring devices have been tested accordingly to the present European standard and, unless otherwise stipulated, equipment is to be used by only one person using a shock absorber in accordance with regulation EN 355.

c) **PRECAUTIONS:** Take the necessary precautions to limit injuries to the user and risks of damaging the **XTIRPA™** System.

d) Use of the **XTIRPA™** System in areas where environmental hazards exist may require additional precautions to limit the possibility of injury to the user or damage to the **XTIRPA™** System. Hazards may include, but are not limited to: high heat, fire, flame, smoke, fumes, caustic chemicals, corrosive environments, high voltage power lines, sudden changes of pressure, explosive or toxic gases or substances, water or risks of flooding, risks of wall, ceiling or floor collapsing, moving machinery and sharp edges.

e) Install and secure all signaling and other precautionary and security measures, including but not limited to, notifying users, bystanders and vehicle operators circulating near the **XTIRPA™** System of the presence of the **XTIRPA™** System and its workers, before starting work.

f) Wear all appropriate, certified and recommended security equipment such as, but not limited to, hard hat, protective eyewear, leather gloves, protective clothing, work boots, harness in accordance with EN 361, flashlight and respiratory device if needed.

WARNING: Equipment shall not be used beyond its limits, or in any other applications for which the equipment was not designed for.

WARNING: A warning should specify that the equipment shall not be used by a person that has not been trained or is not competent to use the equipment safely.

g) Always work in teams of at least two (2) people: 1 attendant and 1 confined space worker (the person attached to the lifeline cable or rope). These people must be qualified and trained on the **XTIRPA™** System. They must have read and understood this Instruction and safety manual before using the **XTIRPA™** System. One person works in the confined space (the user attached to the lifeline cable or rope) and the other (attendant) pays out the line and reels it in, keeps contact with the person inside and remains available in case of any emergency. The attendant makes sure, at all times, that the user who is tying his lifeline cable or rope to his EN 361-compliant harness is in the right position. The attendant also assures that the **XTIRPA™** System is well in place and that no load imbalance is possible.

IMPORTANT: During installation of the system, it is important to ensure stability throughout.

h) Use only a certified full body harness in accordance with EN 361 and certified lifeline cables and ropes for any user of the **XTIRPA™** System, with appropriate specifications designed and recommended for use in specialized work conditions such as those for which the **XTIRPA™** System is intended to be used as per this Instruction and safety manual. For the installation of lifeline cables and ropes on the certified 12kn anchor points of the davit arm, see section 6 paragraph 5 and 6.

IMPORTANT: When used as PPE, the system must be fitted with a device limiting the dynamic forces exerted on the user to a maximum of 6kN (1320 LbF).

i) Plan your work program before starting. Have the required equipment, procedures and people, which must be qualified and trained on the **XTIRPA™** System and who must have read and understood this Instruction and safety manual before using the **XTIRPA™** System, available to do the job.

j) Keep all instructional and safety labels on the **XTIRPA™** System and its components and parts clean and legible at all times. Clean or replace if required. New labels can be obtained upon demand.

IMPORTANT: If the markings on the anchoring device are not legible after installation, it is recommended that supplementary markings next to the anchoring device be made.

WARNING: All modifications of the equipment or all additions to the equipment shall not be performed without the authorization of the manufacturer, and all repairs shall be done as indicated by the operating mode of the manufacturer.

WARNING: It is established and agreed that the equipment (system) is reserved for the use of only one person.

k) Do not exceed **420lbs** (190kg) (CSI, ANSI, OSHA) as the maximum work load of the system.

l) Follow all applicable laws, regulations and standards for work in, entry in and exit from confined spaces.

m) A person who has not read this instruction and safety manual, has not been trained in using the **XTIRPA™** System and does not understand all operation, safety, maintenance, servicing and storage instructions contained in this Instruction and safety manual and in any other recommendations provided by the manufacturer or its certified trainers is not qualified to operate the **XTIRPA™** System and does it at their sole risk, therefore waiving any and all claims, rights and recourses against the Manufacturer and derived there from.

n) Make sure to conform to relative demands regarding anchoring devices. (E.g.: floor adapter, wall adapter etc.) Or ensure that the chosen structure that will be used has an anchoring point, and keep in mind minimal required resistance, equivalency and position.

WARNING: Anchoring devices must be installed only by competent persons or organizations.

o) The maximum force that can be applied by the system to the structure is a vertical force of 22kN (5000 lbf) according to CSA, ANSI, and OSHA; or 12kN according to EN362, EN795 EC from the anchor when the system is placed.

WARNING: The system must be appropriately checked, for example, by calculations or tests.

WARNING: The use of a base, structural anchor or fastener, if one exists, must be taken into account when calculating the amount of force supported by the anchor during strength and integrity testing.

p) A rescue plan shall be put in place in order to account for all likely emergencies that could occur while working.

WARNING: Any modification or addition to the equipment cannot be done without the prior written consent of the manufacturer, and any repairs must be undertaken in accordance with the manufacturer's procedures.

WARNING: This equipment (system) is reserved for the use of one person at a time.

WARNING: It is important to place the **XTIRPA™** System on a hard and level surface. **Do not use the XTIRPA™ System on a soft surface, including, but not limited to, sand, grass, gravel and rocks.** If you have any questions about the use or maintenance or whether the **XTIRPA™** System is appropriate for your job, please contact the Manufacturer PSP INNOVA INC.

WARNING: For safety reasons, make sure when using the anti-drop system that you have enough space under the user, so as to avoid injury. If a fall occurs, there should be enough space to avoid a collision with the ground or any obstacle. See the diagram in Section 8 for calculating this distance.

WARNING: The anti-toppling device A2108-18 must be used while the manhole guard is being used in V configuration. See illustrations 4 and 5 in Section 5 of the manual.

XTIRPA™ SYSTEM REQUIREMENTS

IMPORTANT: If you have questions about the use, care or suitability of the **XTIRPA™** System for your application, please contact the Manufacturer INNOVA Public Utility Products Inc.

IMPORTANT: Record the product identification information from the ID label in the maintenance and inspection log of this Instruction and safety manual.

IMPORTANT: Record purchasing date and also date of first use on the maintenance and inspection log sheet included in this safety instruction manual.

a) The **XTIRPA™** System is intended to be used as part of a personal protection equipment system for fall protection, work positioning, personnel handling, materials handling, or rescue, for use in confined spaces. The **XTIRPA™** System is intended to act as a support structure or anchor for these uses. The **XTIRPA™** System must be used only with adapters, anchors, connectors (EN 362), and other components, parts or subsystems that have been certified, approved and recommended by the Manufacturer.

WARNING: This system should never be used to transport persons and material at the same time.

b) Substitutions or replacements made with non-approved adapters, anchors, connectors (EN 362), other components, parts or subsystems may be incompatible, may jeopardize the safety and reliability of the complete **XTIRPA™** System and may result in serious injury or death, 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 the Manufacturer derived therefrom.

IMPORTANT: It is imperative to keep the pulling angle at a maximum of twenty-two degrees (22°) from the lifeline cable or rope, as to avoid any frontward load unbalance of the manhole guard and cause it to topple over (see illustration A).

WARNING: The anti-toppling device A2108-18 must be used while the manhole guard is being used in V configuration. See illustrations 4 and 5 in Section 5 of the manual.

c) Connectors (EN 362) (hooks, carabiners, D-rings) must be able to support a weight of at least 5000 lbs (2273 Kg). (CSI, ANSI, OSHA).

d) The manhole guard's integrated mast must be positioned at the highest point of the area to be barricaded.

e) When attaching the EN 361-compliant safety harness with the lifeline cable or rope, it is imperative, in order to avoid the manhole guard toppling over, that the user tie himself to the front of the **XTIRPA™** System.

f) Always open the manhole guard to its full capacity before installing davit arm.

g) Make sure the lifeline cable or rope is positioned directly over the work area. Use only certified lifeline cable or rope, in perfect working condition, with appropriate specifications, including maximum leverage capabilities, for the intended use of the **XTIRPA™** System.

h) Owners must make sure that, before each use, all users of the **XTIRPA™** System have read, understood and follow the Manufacturer's Instructions and safety manual.

i) Owners must also make sure that all users have successfully been trained in using the **XTIRPA™** System, before allowing them to use the **XTIRPA™** System, and at least annually thereafter.

j) A person who has not read the Instruction and safety manual, has not been trained in using the **XTIRPA™** System and does not understand all operation and safety instructions, is not qualified to operate the **XTIRPA™** System. An untrained user exposes himself and others to possible serious injury or death, 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 the Manufacturer derived therefrom.

k) Refer to and follow applicable ANSI, OSHA, CSA, CE or other standards and local regulations. Comply with all requirements of your local regulations for your applications.

WARNING: It is possible that a hazard may occur while using multiple components, as one of them could affect the safety function of the system, if the safety function of one component can be affected by that of another component.

WARNING: It is essential for the safety of the user, if the product is resold to a destination outside the first country, that the reseller supplies the instruction manual, maintenance instruction log sheet for the periodic inspections and all associated repair instructions written in the native language of the country in which the product will be used. It is also required to supply all specific additional information for the equipment.

WARNING: Any persons with a medical condition which could cause a hazard to the user during normal operation and in emergency situations should avoid using the system.

l) See other important operation instruction and safety information contained hereafter in this Instruction and safety manual.

WARNING: If the system has been used to stop a fall, it should not be used again until a competent person has, in writing, authorized its reuse.

WARNING: The safety of the user is in direct relation to the quality of maintenance and integrity of the equipment.

m) It is imperative to supply all information in sufficient quantity to assure that different equipment articles are compatible when assembled as system.

n) Life expectancy of the **XTIRPA™** System and its components will be determined based on the conclusions of periodic and monthly inspections which will determine whether or not the product may remain in service.

MAINTENANCE, SERVICING, STORAGE

- a) Before each use, the user must read and understand the Manufacturer's Instruction and safety manual. Ensure that the markings are visible at all times.
- b) Before each use, carefully inspect the **XTIRPA™** System and all components and parts thereof. Any defective parts or components could result in serious injury or death.
- c) ANSI, OSHA, CSA and CE require a regular inspection program for all confined space entry/retrieval equipment and to maintain documented results of these inspections. Use the maintenance and inspection logs included in this Instruction and safety manual to document the results.
- d) It is recommended that the anchoring device be marked with the most recent or next inspection date.
- e) Remove the **XTIRPA™** System from service if a problem or an unsafe or defective condition is found during the inspection. Return to an authorized service center or the manufacturer for service.
- f) Replacement components and parts and additional maintenance and servicing procedures must be completed by an authorized service center which has been approved by the manufacturer, or by the manufacturer itself.
- g) If leveling screwing pads do not move freely, they must be lubricated with a light machine oil.
- h) Establish a monthly inspection which should be done by a competent person (person who is familiar, has been trained and has read and fully understands this Instruction and safety manual), other than the user.

WARNING: A periodic inspection should be performed at least once every twelve months.

- i) Periodically clean the exterior of the davit arm and base, using water and mild detergent. Clean labels as required.
- j) Store the **XTIRPA™** System in a clean and dry environment, out of direct sunlight. Avoid areas with chemical or toxic vapors, substances or environments. Do not immerse or leave in direct contact with water, as corrosion and rust may occur. Inspect the **XTIRPA™** System after any period of extended storage and at least once a month.
- k) The **XTIRPA™** System and its components was designed for 10 years of continuous service. The life expectancy of the **XTIRPA™** System and its components will be determined after periodic and monthly inspections that will determine whether or not the product may remain in service.
- l) All components and parts of the **XTIRPA™** System should be stored in separate bags to facilitate transport and handling.

WARRANTY

The **XTIRPA™** System offered by the Manufacturer, INNOVA Public Utility Products Inc., is warranted against manufacturing defects in workmanship and materials for a period of two (2) years from the date of shipment of the product, which warranty only covers the original purchaser of the **XTIRPA™** System. The Manufacturer will promptly repair or replace all components or parts found to be defective, the Manufacturer reserving the right to elect to have any alleged defective part returned to its plant for inspection before making a repair or replacement.

Only components or parts found to be defective by the Manufacturer, at its sole discretion and upon any inspection requested and performed by the Manufacturer, will either be repaired or replaced by the Manufacturer, at its sole choice.

All claims must be forwarded in writing to the Manufacturer, immediately upon discovery by owner, and must be accompanied by a copy of the proof of purchase of the original purchaser. The Manufacturer will issue a claims number and give specific instructions to be followed as to claim procedures and return of the defective part, if so requested by the Manufacturer. Owner will collaborate with the Manufacturer and its representatives to allow inspection of any alleged defective part. All shipping costs to return defective components and parts to the Manufacturer's plant are payable by owner. The cost of reshipping replacement components or parts being covered, payable by the Manufacturer.

This warranty does not cover equipment damages resulting from any other cause than a manufacturing defect in workmanship or materials, including, without limitation, damages resulting from abuse, lack of maintenance, improper handling or storage, voluntary damages, vandalism, accidental damages or damages resulting from impact or collision, damage in transit, damages caused by fire, explosion, chemical, toxic or corrosive vapors, substances or environments, water, normal corrosion and rust, storms, hail, and other acts of God, war or insurrection, acts of terrorism or other damage beyond the control of the Manufacturer. 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. Without limiting the generality of the foregoing, the Manufacturer will not be liable nor responsible for any other cost, damages or claims whatsoever, including for any special, incidental, indirect, or consequential damages whatsoever such as, but not limited to, damages for loss of profits or expected revenues, for business interruption, for personal injury, for failure to meet any duty including of good faith or of reasonable care, for negligence, and for any other pecuniary or other loss whatsoever, arising out of or in any way related to the use of or inability to use the **XTIRPA™** System, even in the event of the fault, tort (including negligence), strict liability, breach of contract or breach of warranty, even if the Manufacturer has been advised of the possibility of such damages. The Manufacturer hereby disclaims all other warranties and conditions, either express, implied or statutory, including, but not limited to, any implied warranties or conditions of merchantability, of fitness for a particular purpose or application, and of lack of negligence or lack of workmanlike effort.

IMPORTANT: The buyer must fill out and return the Limited Warranty registration form for each product.

XTIRPA™ SYSTEM DESCRIPTION

WARNING

The XTIRPA™ System is part of a personal fall arrest, work positioning, personnel handling, material handling or rescue system for use in confined spaces. The XTIRPA™ System is intended to act as a support structure or anchor for these uses. The user must read, understand and follow the manufacturer's instructions for each component or part of the complete XTIRPA™ System. These instructions must be provided to the user of the XTIRPA™ System. The user must read and understand these instructions before using the XTIRPA™ System. The Manufacturer's instructions must be followed for proper use and maintenance of the XTIRPA™ System. Alterations or misuse of the XTIRPA™ System or failure to follow instructions may result in serious injury or death, 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 the Manufacturer and derived therefrom.

DESCRIPTIONS

1067mm (42") PORTABLE MANHOLE GUARD WITH INTEGRATED MAST: IN-2108 (see illustration 1)

610mm (24") DAVIT ARM W/SECONDARY BLOCK: IN-2210 (see illustration 1)

1067mm (42") XTIRPA PORTABLE MANHOLE GUARD SYSTEM FOR PPE: IN-8002 (see illustration 3)

1067mm (42") XTIRPA PORTABLE MANHOLE GUARD SYSTEM FOR PPE: IN-8002 V position (see illustration 4)

ANTI-TOPPLING DEVICE FOR 1067mm (42") MANHOLE GUARD: A2108-18 (see illustration 5)

Illustration 1: IN-2108

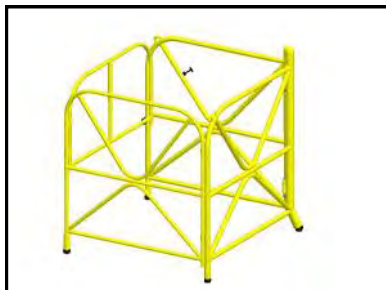


Illustration 3: IN-8002



Illustration 5: A2108-18



Illustration 4: IN-8002 in "V" position



Illustration 2: IN-2210



OPERATION, ASSEMBLY AND USE XTIRPA™ SYSTEM

WARNING: The XTIRPA™ System is part of a personal fall arrest, work positioning, personnel handling, material handling or rescue system for use in confined spaces. The XTIRPA™ System is intended to act as a support structure or anchor for these uses. The user must read, understand and follow the Manufacturer's instructions for each component or part of the complete XTIRPA™ System.

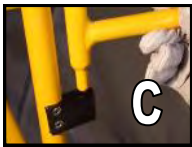
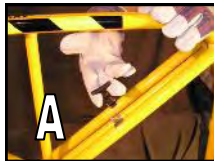
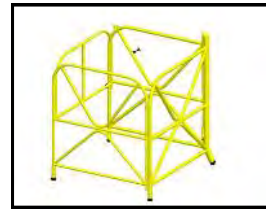
WARNING: These instructions must be provided to the user of the XTIRPA™ System. The Manufacturer's instructions must be followed for proper use and maintenance of the XTIRPA™ System. Alterations or misuse of the XTIRPA™ System or failure to follow instructions may result in serious injury or death, for which the Manufacturer disclaims all warranties and liabilities whatsoever, the user, owner and purchaser of the XTIRPA™ System waiving all claims, rights and recourses against the Manufacturer and derived therefrom.

IMPORTANT : If you have questions on the use, care or suitability of the XTIRPA™ System for your application, please contact the Manufacturer INNOVA Public Utility Products Inc.

IMPORTANT : Record the product identification information from the ID label of the XTIRPA™ System in the maintenance and inspection log of this Instruction and safety manual.

OPERATION AND INSTALLATION OF DAVIT ARM AND MAST SYSTEM

1. Make sure that all components and parts are in good working condition and that they all work correctly.



2. A) Undo the rubber draw latch and open the manhole guard to its maximum capacity. B) If necessary, adjust the legs to level the system. C) Close and lock the door using locking mechanism.

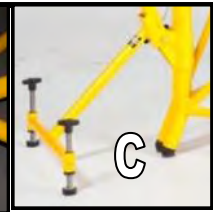
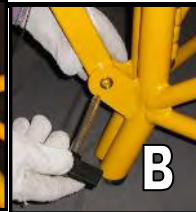


IMPORTANT: Always open the manhole guard to its full capacity before installing davit arm.

3. A) Remove both handle pins from their locations.
B) Install the receptacle of the davit arm on the integrated mast of the manhole guard.

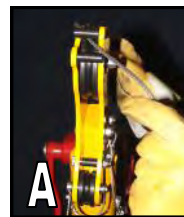


4. A) Lock all with the first handle pin.
B) Install the inferior leg of the davit arm between the eyelets of the manhole guard and lock with the second handle pin.
C) If necessary, install the anti-toppling device A2108-18 through the eyelets on each side of the manhole guard and lock with the pin.



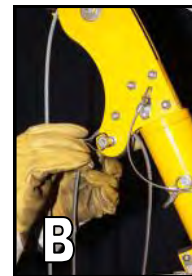
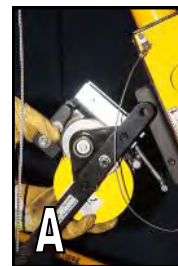
5. A) Install the lifeline cable or rope or winch on mounting bracket made to accept the hoisting device, and lock with pin attached to the SRL or winch bracket.

6. A) Pass the lifeline cable or rope into the pulley located at the top end of the davit arm. Make sure that the lifeline cable or rope is well in place.



7. A) If a material positioning winch is required, use the bottom mounting bracket located under the davit arm. Install winch to mounting bracket and lock with pin attached to winch.

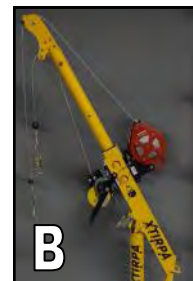
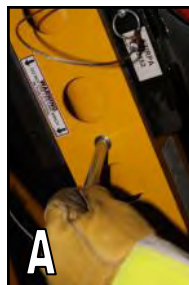
- B) Remove the small pulley locking pin. Position cable over pulley and re-install pulley using locking pin.



WARNING: It is strictly prohibited to use the material /positioning winch as a fall arrest, when the winch is positioned on the bottom mounting bracket located under the davit arm.

WARNING: Only adaptors and brackets that are approved, certified and recommended by the manufacturer are to be used with the XTIRPA™ System.

8. A) Remove locking pin located in the mid section of the davit arm.
B) Extend the inner mast to full extension. Replace locking pin to secure the davit arm.



IMPORTANT: It is imperative to keep the pulling angle at a maximum of twenty-two degrees (22°) from the lifeline cable or rope, as to avoid any frontward load unbalance of the manhole guard and cause it to topple over (see illustration A).



22° maximum angle

9. A) When attaching the safety harness with the lifeline cable or rope, it is imperative, in order to avoid the manhole guard toppling over, that the user tie himself at the front of the XTIRPA™ System.

IMPORTANT: Make sure the lifeline cable or rope is positioned directly over the work area. Use only certified lifeline cable or rope, in perfect working condition, with appropriate specifications, including maximum leverage capabilities, for the intended use of the XTIRPA™ System.

WARNING: It is imperative to position the XTIRPA™ System on a hard and level surface. **Do not use the XTIRPA™ System on soft ground, such as but not limited to, sand, grass, gravel and rocks.** If you have questions on the use, care or suitability of the XTIRPA™ System for your application, please contact Manufacturer.

WARNING: The integrated mast on the manhole guard must be positioned at the highest point of the area to be barricaded.

IMPORTANT: When attaching the EN 361-compliant safety harness with the lifeline cable or rope, it is imperative, in order to avoid the manhole guard toppling over, that the user tie himself at the front of the XTIRPA™ System, where the door opens.

IMPORTANT: An EN 361-compliant fall protection harness is the only body support device allowed to be used for fall protection.

WARNING: The Manufacturer's Instruction and safety manual must be followed for proper use and maintenance of this product. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death, 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 the Manufacturer derived therefrom.

WARNING: The entire system must be immediately removed from service: if the safety of the system is in doubt or the system has stopped a fall. It is imperative not to use the system until a competent person has authorized (in writing) the reuse of the system.

WARNING: For all fall protection devices, it is essential, for safety purposes, that anchoring device is always positioned correctly and that the task to be performed should be done in a manner to reduce risk of fall and height of fall. The anchoring point and fall protection device must be placed directly over the user's position.

WARNING: With the use of a fall protection device, it is essential for safety purposes, to verify the free space required under the user at the work site before each use to avoid and prevent falls, in case of collision with ground or any other obstacle that could be in the path of the fall.



WARNING: The XTIRPA™ System must be used only with adapters, anchors, connectors (EN 362), other components, parts or subsystems that have been certified, approved and recommended by the Manufacturer. Substitutions or replacements made with non-approved adapters, anchors, connectors (EN 362), other components, parts or subsystems may be incompatible, may jeopardize the safety and reliability of the complete XTIRPA™ System and may result in serious injury or death, 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 the Manufacturer derived therefrom. The connectors (EN 362) (hooks, carabiners, D-rings) must be able to support a load of at least 5,000 lbf. (22kN) in accordance with ANSI, CSA, and OSHA and 12kN in accordance with EN-795:2012.

THE FOLLOWING INSTRUCTIONAL AND SAFETY SIGNS MUST BE KEPT CLEAN AND LEGIBLE AT ALL TIMES

Product No.

Manufacturer



XTIRPA
IN-2210
Davit Arm

Specifications:
(CSA, ANSI, OSHA) Maximum Working Load 420lbs (190kg) or 360lbs (164kg) When use with mast IN-2003. (CE) EN 795 : 2012

Materials: Aluminum, Stainless Steel, Delrin(MC)

Standards : Meets ANSI Z359 1-99, OSHA 1910.66, CSA Z259.2.1-98, EN 795.2012

Inspection :
Before each use, inspect the XTIRPA™ System to determine that it is in perfect working condition. At least once a month, the portable manhole guard and other components of the XTIRPA™ system should be inspected by a competent person in accordance with the User's instruction and safety manual.

Do not use if inspection reveals a problem, an unsafe or defective condition. Must not be repaired by other than manufacturer or an authorized service center. Not user repairable.

Installation and use :
Ensure that all components and parts are in perfect working condition and working properly. Make sure that your anchoring point is in perfect working condition. Remove both handle pins from their location. Install the receptacle of the davit arm on the integrated mast of the manhole guard or on the mast. Proceed to install the inferior leg of the davit arm between the eyelets of the manhole guard and/or the mast and lock with the handle pin. Lock the davit arm receptacle onto the manhole guard or mast with handle pin. Install lifeline/winch on mounting bracket and pass cable/rope into the pulley at the top of davit arm. Remove pin located at middle section of davit arm, fully extend inner mast and replace locking pin. If a material/positioning winch is required, use the bottom mounting bracket located under the davit arm. **It is strictly prohibited to use this position with a fall arrest winch.**

Remove the small pulley locking pin. Position cable over pulley and re-install pulley using locking pin. Only adaptors and brackets approved, certified and recommended by the Manufacturer are to be used with the XTIRPA™ system.

Warnings :
For all other davit arm applications, consult Manufacturer or Distributor.

Manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death, for which Manufacturer and Distributor disclaim all warranties and liabilities whatsoever. User, owner and purchaser of the XTIRPA™ System waiving all claims, rights and recourses against Manufacturer and Distributor derived there from.

Patents : US 7,213,715 B2 CA 2,479,513 EP 03 744 296 9 1 man rated

Products Manufactured By: Innova Public Utility Products Inc. 1940 Boul. Industriel, Grenay, QC, Canada J2J 1M4 www.xtirpa.com S2210-002 Rev.F Made in Canada



XTIRPA
IN-2108
Portable Manhole Guard

Specifications :
(CSA, ANSI, OSHA) Capacity Maximum work load 420lbs (190kg). (CE) EN 795 : 2012

Materials: Aluminum, Stainless Steel, Duracan(AC, Delrin(MC).

Standards : Meets ANSI Z359 1-99, OSHA 1910.66, CSA Z259.2.1-98, EN 795.2012 Type B

Inspection :
Before each use, inspect the XTIRPA™ System to determine that it is in perfect working condition. At least once a month, the portable manhole guard and other components of the XTIRPA™ system should be inspected by a competent person in accordance with the User's instruction and safety manual.

Do not use if inspection reveals a problem, an unsafe or defective condition. Must not be repaired by other than manufacturer or an authorized service center. Not user repairable.

Installation and use :
Ensure that all components and parts are in perfect working condition and working properly. Detach the flexible draw latch, open manhole guard to its maximum capacity, make sure that the integrated mast of the manhole guard is at the highest point of the area to be barricaded. If necessary, adjust the legs of the manhole guard to level system. Close and lock the door. It is recommended to keep door latched during use. Only use XTIRPA™ System if all components and parts are in their correct position. Refer to User's instruction and safety manual for additional information.

Warnings :
It is imperative to position the XTIRPA™ System on a hard and level surface. Do not use the XTIRPA™ System on soft ground, such as but not limited to sand, grass, gravel and rocks.

Manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death, for which Manufacturer and Distributor disclaim all warranties and liabilities whatsoever. User, owner and purchaser of the XTIRPA™ System waiving all claims, rights and recourses against Manufacturer and Distributor derived there from.

Patents : US 7,213,715 B2 CA 2 479 513 EP 03 744 296 9 1 man rated

Products Manufactured By: Innova Public Utility Products Inc. 1940 Boul. Industriel, Grenay, QC, Canada J2J 1M4 www.xtirpa.com S2108-002 Rev.F Made in Canada

EC ACCREDITATION LABEL

Notified body Number →

Accredited Standard Number →

0082
EN 795:2012
Type B
S2324-004 Rev.A

Standard Product Type

European conformity

SERIAL NUMBER LABEL

Product serial number →

Product number →

XTIRPA

Product No. Lot No.

Serial No. Mfg. date

www.xtirpa.com Manufactured by: Innova Public Utility Products Inc. Made in Canada

S2001-005 Rev.B

Date of manufacture →

Batch number →

WARNING LABEL IN-2210

WARNING

DO NOT USE FALL ARREST DEVICE IN THIS POSITION

S2002-007 Rev.C

WARNING LABEL IN-2210

WARNING

RESCUE ANCHOR POINT RATED: 5000lbf (22kN)

S2210-012 Rev.A

WARNING LABEL IN-2210

NOT AN ANCHOR POINT

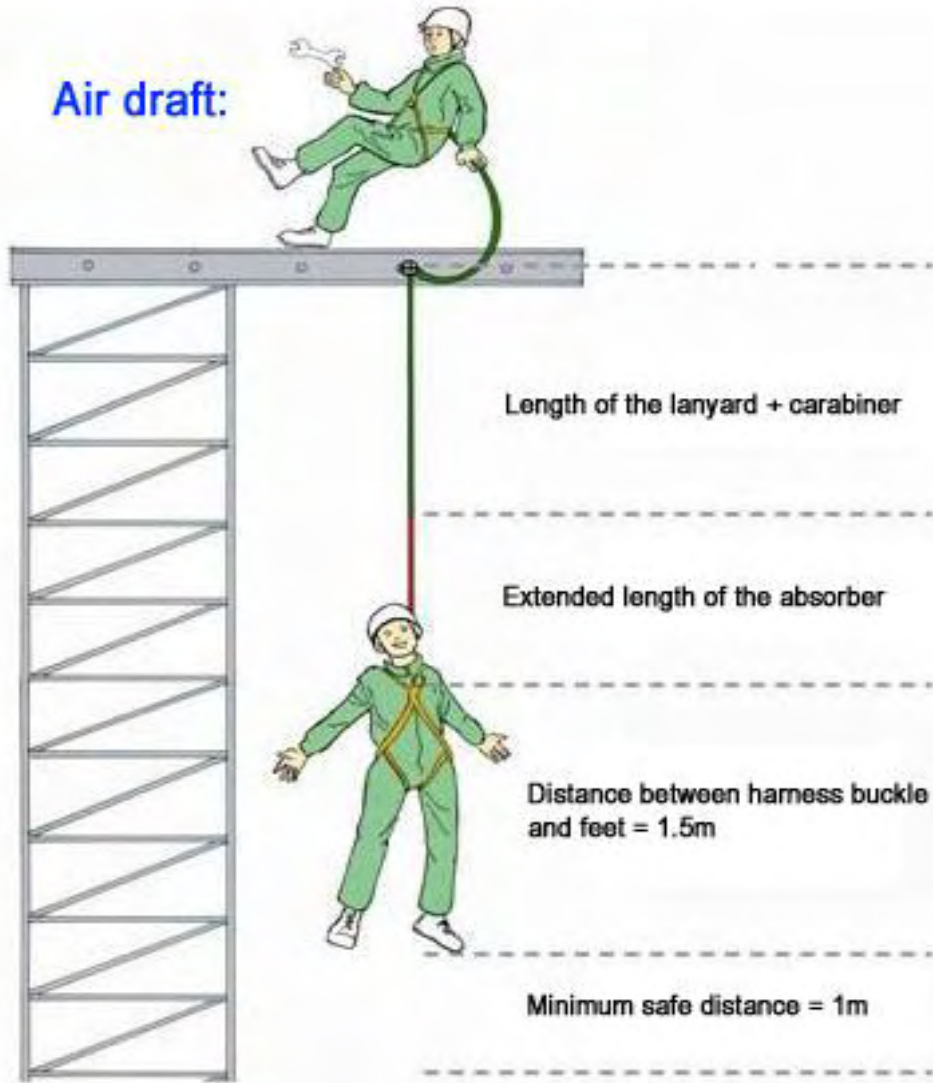
02210-010

WARNING

Calculation diagram

Calculation diagram

Air draft:



Pay attention to the distance to the ground!



Registration Limited Warranty Form



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: _____

E-Mail: _____

State: _____

Zip: _____

Do you wish to be on Innova's mailing list

Name: _____

for new product literature: Yes

Position: _____

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 TM 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 TM system waiving all claims, rights and recourses against Manufacturer and derived there from.

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



MAINTENANCE AND INSPECTION LOG



PRODUCT: _____

Purchasing Date: _____

Model number: _____ Serial number: _____

Manufacturing Date: _____

Inspection: _____

Date of 1st use: _____

Inspection date:	LABELS	CORROSION	STRUCTURAL DAMAGE	WELDING	PINS & HARDWARE	OTHER (SPECIFY)	CORRECTIVE ACTION TAKEN (IF REQUIRED)	INSPECTED BY:
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

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.