



MALTA DYNAMICS

Reusable Roof Anchor

A6303 Instruction Manual



Reusable Roof Anchor A6303 INSTRUCTION MANUAL

These instructions apply to the following model(s):
A6303 Reusable Roof Anchor

Manual Revision Code:
MD-RRAUIM170126

A copy of this manual must be available to users at all times. Visit www.MaltaDynamics.com for the latest user instruction manual based upon date of manufacture.

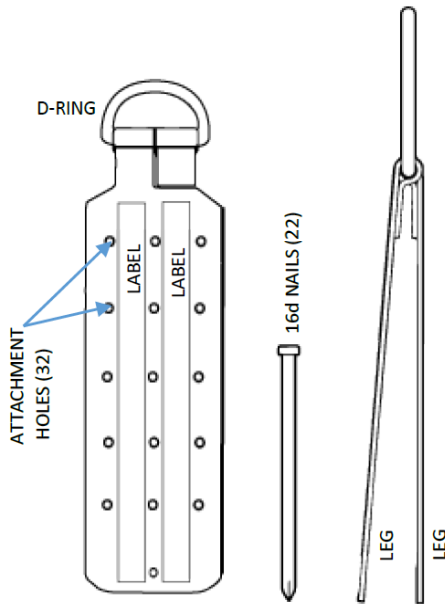


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UNDER PENALTY OF LAW

This manual must be read and understood in its entirety and used as part of your fall protection training program as required by OSHA 1926 and State and local regulatory agencies. This instruction manual is intended to meet industry standards required by and ANSI Z359.1-2007 and should be used as part of an Employee Fall Safety training program as required by OSHA. User must read and fully understand the limitations and proper use of the equipment, and be properly trained by employer prior to use per OSHA 29 CFR 1910.66, 29 CFR 1926.503, and applicable local standards.

NOTE: This *User Instruction Manual* is not to be removed except by the user of this equipment. Current *User Instruction Manuals* must always be available to the user. Read and understand these instructions before using equipment. *Instructions can be downloaded from www.maltdynamics.com website.*

WARNING

Misuse or failure to follow warnings, instructions and limitations on the use of this equipment may result in serious personal injury or death. For further instructions about proper use, refer to supervisor or contact Malta Dynamics at 1-800-494-1840.

PURPOSE

A6303 Malta Dynamics Reusable Roof Anchor is designed for use as a temporarily installed (not for permanent installation) anchorage connector, and use as part of a personal fall arrest or restraint system. Not to be used for attachment of a lifeline between two or more roof anchors (e.g. horizontal lifeline system). Do not lift or support tools or equipment from this roof anchor.

FALL ARREST APPLICATION: Reusable roof anchor is part of a complete fall arrest system that typically includes a full body harness and connecting subsystem (e.g. an energy absorbing lanyard). Maximum permissible free fall is six feet. Fall arrest system is used where a free fall is possible before a fall is arrested. Use 900 Maximum Average Arrest Force (MAAF) ANSI certified lanyard or SRD.

RESTRAINT APPLICATION: Reusable roof anchor is used as part of a complete restraint system that typically includes a full body harness and lanyard or restraint line used to restrain a user from reaching a hazard (e.g. leading edge roof work). Restraint system is used where no vertical free fall is possible.

INSTRUCTIONS FOR USE

WARNING

Do not alter or intentionally misuse this equipment.

- Reusable Roof Anchors which meet ANSI Z359.1-2007 are intended to be used with other components of a Personal Fall Arrest system that limit maximum arrest forces to 900 lbs. (4kN) or less.
- Employees shall be trained in accordance with the requirements of OSHA 29 CFR 1910.66 in the safe use of the system and its components before using a PFAS.
- Inspect all personal fall arrest system equipment for wear, damage, and other deterioration prior to each use. Defective components must be removed from service immediately in accordance with the requirements of OSHA 29 CFR 1910.66 and 1926.502.
- Thoroughly evaluate and plan all elements of fall protection system(s) before using this equipment. Make sure that PFAS is appropriate for your needs and facility. Calculate fall clearance and swing fall clearance.
- Users must have a rescue plan and the means to implement it. This plan must provide prompt employee rescue or assure that employees have the ability to rescue themselves in the event of a fall.
- Store this equipment in a cool, dry, and clean environment that is out of direct light when not in use.
- This equipment must be removed from service immediately if a fall is incurred.
- Failure to follow all instructions and limitations of use of this equipment may result in serious personal injury or death.

LIMITATIONS FOR USE

WARNING

Do not use this equipment if you are unable to tolerate the impact of a fall arrest. Age and fitness can seriously affect your ability to withstand a fall. Consult with a physician if in doubt. Minors, pregnant women, and anyone with a history of back and/or neck problems must not use this equipment.



WARNING

Use caution when employing this equipment around machines, electrical hazards, chemical hazards and sharp edges or abrasive surfaces, as contact may cause equipment failure, personal injury, or death.

- This equipment is designed to be used in temperatures ranging from -40 degrees Fahrenheit to +130 degrees Fahrenheit (-40 degrees Celsius to +53 degrees Celsius).
- A6303 Reusable Roof Anchor is designed for use by one person only, with maximum weight of 310 lbs. if used in combination with equipment explicitly certified for such use (including clothing, tools, etc.).
- Roof Anchor must only be used on structures capable of supporting static loads applied in all directions permitted by the fall arrest system of at least: 3,600 lbs (16.0 kN) with certification of a qualified person, or 5,000 lbs (22.2 kN) without certification.
- Do not expose this equipment to chemicals or harsh solutions that may have a harmful effect.
- Do not use or install equipment without proper training from a “Competent Person,” as defined by OSHA 29 CFR 1926.32(f).
- Only Malta Dynamics shall make repairs or alterations to the equipment.

CONNECTOR COMPATIBILITY LIMITATIONS

Malta Dynamics equipment must be coupled only to compatible connectors that are suitable to your application. Ensure all connections are compatible in size, shape and strength. Ensure all connectors are fully closed and locked. OSHA 29 CFR 1926.502 prohibits the use of snap hooks to engage to objects unless the following requirements are met:

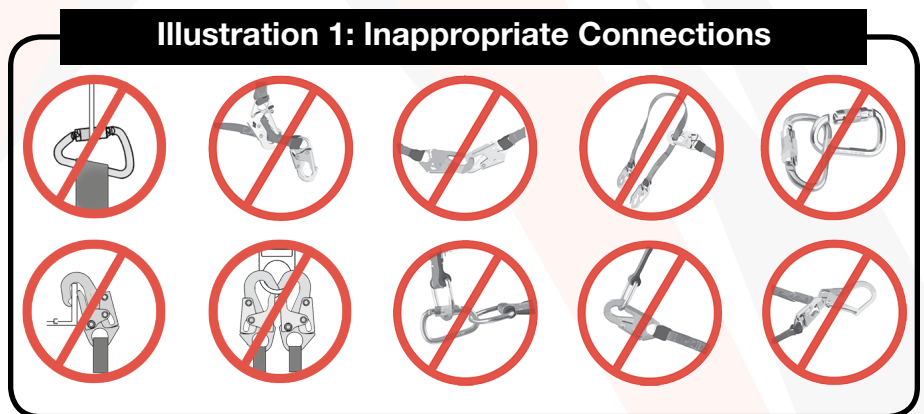
- Snap hook must be a locking type snap hook.
- Snap hook must be explicitly designed for such a connection. “Designed for” means that the manufacturer of the snap hook specifically created the snap hook to be used to connect to the equipment in question.

Use of a non-locking snap hook can result in rollout (a process by which a snap hook or carabiner unintentionally disengages from another connector or object to which it is coupled. ANSI Z359.0- 2007). Malta Dynamics connectors (snap hooks and carabiners) are designed to be used only as specified in each product’s user’s instructions. See **Illustration 1** for inappropriate connections.

Avoid the following types of connections:

- Connection of two (or more) snap hooks/rebar hooks or carabiners to one D-ring.
- Connection of a snap hook/rebar hook back to its integral lanyard.
- Direct connection of a snap hook/rebar hook to horizontal lifeline.
- Connection in a manner that results in a load on the gate. NOTE: *Large throat opening snap hooks should not be connected to standard size D-rings or similar objects, as such use will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on structural elements such as rebar or cross members that are not shaped in such a way that they may capture the gate of the hook.*
- False engagement connections, where protruding features of the snap hook/rebar hook or carabiner may catch on the anchor and seem to be fully engaged to the anchor point. Always confirm engagement.
- Connection to snap hooks or carabiners.
- Do not connect a snap hook/rebar hook into a loop or thimble of a wire rope or attach in any way to a slack wire rope.
- Direct connection to webbing lanyard, webbing loop, rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allow such a connection).
- Connection of a snap hook to a D-ring, rebar, or other connection point of improper dimensions in relation to the snap hook dimensions or configurations that could cause the snap hook keeper to be depressed by a turning motion of the snap hook, or such that snap hook or carabiner will not fully close and lock, or that roll-out could occur.
- Snap hook/rebar hook must be free to align with applied load as intended.
- Carabiner may be connected to a loop or ring connector already occupied by a choker style connector. This type of connection is prohibited for snap hooks/rebar hooks.

Illustration 1 depicts examples of a few of these inappropriate connections:



PERFORMANCE

A6303 Reusable Roof Anchor has a minimum tensile breaking strength of 5,000 lbs. (22.2 kN) when statically tested in accordance with the requirements of the ANSI Z359.1-2007 standard.

Model/ Part #	Material	Length	Width	Connection	Approx. Weight	Standard Regulation
A6303	1/8 in. plate steel	21 in.	3 in.	2-1/4 in.	1.6 lbs.	ANSI Z359.1-2007

When installed as an anchor point on a flat surface or on one side of a peaked roof, the connecting fall arrest subsystem must not extend over the peak of the roof to the other side.

When working on the opposing roof surface, installation of an additional Reusable Roof Anchor is required on that side.

Anchor must be positioned to apply load in the long axis of the anchor bracket.

After removal of the Reusable Roof Anchor, roof surface may require repairs. It is the responsibility of the installer to make applicable repairs to the roof materials.

The Malta Dynamics Reusable Roof Anchor can be used on a maximum roof slope of 12/12 pitch.

Attachment:

Center on the ridge of roof framing assembly. Position the anchor on the roof such that the holes along the center of the legs are centered directly over the center of the roof framing member. The roof anchor must be positioned over top of previously secured roof sheathing (do not attach directly to rafter or truss).

Nails:

The 6 center holes and 1 row of the outer holes on each leg must be used. The 6 center holes must be centered on the framing section and the 5 outer holes must penetrate through substrate. Total of 22 nails must be used. Minimum ply wood thickness = 1/2" nominal. Nail size to be used 16d 3 1/2" long.

Screws:

The 6 center holes on each leg must be used. 3" long # 12 stainless screws must be installed in the center of the framing section. Minimum Ply wood thickness 1/2".

All fasteners must be installed without splitting the timber or protruding through side members. Edge distance, end distances and spacing must be sufficient to prevent splitting of the wood, and must conform to design requirements under the current edition of Section 11.1.5 National Design Standard (NDS), Chapter 23 of The International Building Code (IBC) and all other applicable codes. Nails must meet the requirements of ASTM F1667.

If roof anchor is not installed properly, it will not hold the rated loads and serious injury or death could occur.

The anchorage to which the roof anchor is installed must meet strengths as given below:

FALL ARREST: Roof anchors installed for fall arrest applications must be attached to a roof structure capable of sustaining static loads in the direction(s) permitted by the PFAS when in use of at least:

- (A) 3,600 lbs. (16kN) when certification exists (reference ANSI Z359.1 2007 for certification definition); or
- (B) 5,000 lbs. (22.2kN) in absence of certification. See **Illustration 2** for roof anchor loading direction limitations.

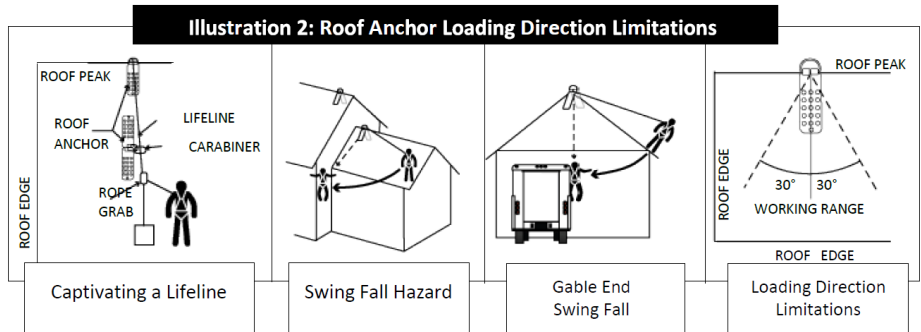
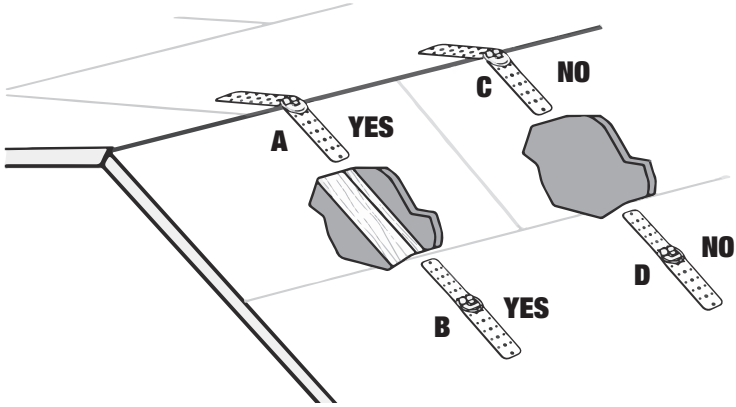


Figure 1: Roof Anchor Installation Details



Anchor Type: follow instructions defined for the roof anchor type outlined below.	Install through Sheathing into Truss		Install through Sheathing into Truss	
	Roof Location A. On Ridge	Roof Location B. On Field	Roof Location C. On Ridge	Roof Location D. On Field
Malta Dynamics Hinged Reusable Roof Anchor	YES	YES	NO	NO

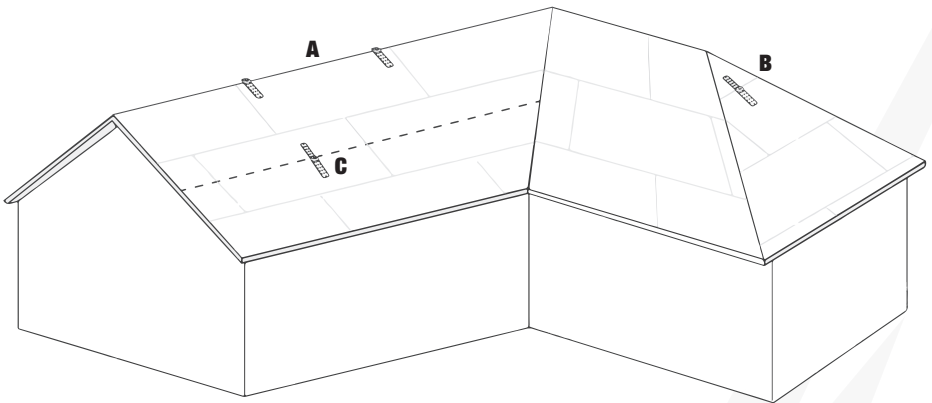


Figure 2: Typical Roof Site Plan for Roof Anchors

A	Roof Ridge	No more than 8' of spacing between roof anchors installed on Roof Ridges
B	Hip Face	At least one (1) roof anchor on each Hip Face
C	Roof Edge	No less than 6' from an exposed Roof Edge

When multiple roof anchors are installed, the strength (static load) above must be met at each roof anchor's installation point independently. (E.g. If two roof

anchors are installed onto a roof structure, each of the two anchor location must be independently capable of supporting 5,000 lbs.(22.2 kN) or 3,600 lbs. (16.0 kN) with certification.)

Anchorage used for attachment of a personal fall arrest system shall be independent of any anchorage being used to support or suspend platforms, and must support at least 5,000 lbs. (22.2 kN) per user attached; or be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, and is supervised by a qualified person.

RESTRAINT: Roof anchors installed for restraint applications must be attached to a roof member capable of sustaining a static load of at least 3,000 lbs. (16.0 kN) applied in any direction permitted by the restraint system when in use. Each roof anchor installation must be independently capable of sustaining this load.

TRAINING

Employers are responsible for providing training to any employee who may be exposed to fall hazards in order to enable the employee to recognize and reduce fall hazards. Training must be conducted by a Competent or Qualified Person. Trainer and trainees must not be exposed to fall hazards during the training course.

INSPECTION

If inspection reveals any defect, inadequate maintenance, or unsafe condition, remove Reusable Roof Anchor from service immediately.

Any Reusable Roof Anchor that has been subjected to the forces of arresting a fall must be removed from service immediately.

Note: Equipment must not be altered in any way, including attempted repair. Only manufacturer, or entities authorized in writing by the manufacturer, may make repairs to this product.

- Equipment must be free of corrosion, chemical attack, alteration, excessive heat or extreme wear.
- All markings must be legible and attached to the equipment.

Step 1: Inspect Reusable Roof Anchor for physical damage, e.g. any signs of cracks, dents, or deformity. Check for bending or bowing of roof anchor legs.

Step 2: Inspect Reusable Roof Anchor for signs of corrosion.

Step 3: Ensure the condition of the roof anchor is capable of supporting Roof Anchor load. Do not connect any Roof Anchor to rotten or degraded wood; do not use any Roof Anchor connected to rotten or degraded wood.



Step 4: Ensure Reusable Roof Anchor remains securely attached. If Roof Anchor is loose, do not use.

Step 5: Inspect each system component or subsystem per associated manufacturer's instructions.

Step 6: Record the inspection date and results in your Hog Tracker account or inspection log.

If inspection reveals any defective condition, remove from service immediately.

FREQUENCY


- All equipment must be visually inspected prior to each use according to the manufacturer's instructions included at time of shipment. Inspections must be performed by a Competent Person other than the user (as defined by OSHA) a minimum of once per year (annually).
- Record the results of each formal inspection in your Hog Tracker account or inspection log.
- **NOTE: Per Cal/OSHA PFAS must be inspected by a competent person at least twice a year, in accordance with the manufacturer's recommendations, with inspection dates documented.**


CLEANING AND MAINTENANCE

No cleaning or maintenance is required for this product. If inspection reveals any defect, remove from service and destroy immediately.

PRODUCT LABELS

The following labeling is affixed to product and must not be removed:

 MALTA DYNAMICS	User: (1) Person Max. Min Break Strength: 5000 lbs. Max Capacity: ANSI Capacity/Range: 130-310 lbs. (INSPECT BEFORE USE) MFG DATE: XXXXXXXXXX BATCH#: XXXXXXXXXXXX
Model: A6303 Reusable Roof Anchor 210 13th Street, Malta, OH 43759 800-494-1840 MaltaDynamics.com	
COMPLIANCE: OSHA 1910.66 & 1926.502 and ANSI Z293.1-2007	INSTALLATION: The 6 center holes and 1 row of the outer holes on each leg must be used. The 6 center holes must be centered on the framing section and the 5 outer holes must penetrate through substrate. Total of 22 nails must be used. Minimum ply wood thickness = 1 1/2" nominal. Nail size to be used 16d 3 1/2" long.
<ul style="list-style-type: none">• Always follow instructions included with roof anchor at time of shipment.• Use only as part of a design compatible Personal Fall Arrest System (PFAS). Do not use for other purposes.• For temporary use only.	<ul style="list-style-type: none">• If using screws, The 6 center holes on each leg must be used. 3" long # 12 stainless screws must be installed in the center of the framing section. Minimum Ply wood thickness 1 1/2".• Read instruction manual included with anchor for additional information on correct installation practices and anchor limitations.
DO NOT REMOVE THIS LABEL	DO NOT REMOVE THIS LABEL

 **WARNING:** All persons using this equipment must read, understand and follow all instructions before using this product. Improper use of this equipment may result in serious injury or death. Make sure Roof Anchor is in serviceable condition. Do not attempt to repair, modify or alter. Make sure only compatible connections. Do not alter, misuse or combine with incompatible components. Avoid contact with machinery. Electrical hazards or sharp edges. Do not attempt to repair. If inspection reveals Roof Anchor to be damaged or if Roof Anchor has been subjected full arrest forces (or equivalent), immediately remove from service.

Support structure must be capable of supporting a 5000 lb. static load or meet the requirements of OSHA's 1926.502 two to one safety factor. Connection to anchor must only be made with a double locking carabineer or double locking snap hook. Fall protection system must include shock absorber or retractable to limit force to 900 lbs. or less. Only one personal protective system may be installed per anchor. Free fall must not exceed 6 feet. Make certain adequate clear fall distance exists between working surface and next lower level. When installing, be aware of any fall hazards. Be aware of corrosive and chemical hazards and their effects. Product not designed for permanent installation. Refer to instruction manual for proper method of connecting to this anchor, and connector compatibility. Refer to instruction manual for inspection requirements.

DO NOT REMOVE THIS LABEL



WARRANTY

THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Equipment offered by Malta Dynamics is warranted against factory defects in workmanship and materials for a period of one year from date of installation or first use by the original owner. LIMITED REMEDY: Upon notice in writing, Malta Dynamics will repair or replace all defective items at Malta Dynamics's sole discretion. Malta Dynamics reserves the right to require that the defective item be returned to its plant for inspection before determining the appropriate course of action. Warranty does not cover equipment damage resulting from wear, abuse, damage in transit, failure to maintain the product or other damage beyond the control of Malta Dynamics. Malta Dynamics shall be the sole judge of product condition and warranty options. This warranty applies only to original purchaser and is the only warranty applicable to this product. Please contact Malta Dynamics customer service department at 800-494-1840 for assistance. LIMITATION OF LIABILITY: IN NO EVENT WILL MALTA DYNAMICS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO LOSS OF PROFITS, IN ANY WAY RELATED TO THE PRODUCTS REGARDLESS OF THE LEGAL THEORY ASSERTED.





MALTA DYNAMICS

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