



# Operations and Instruction Manual

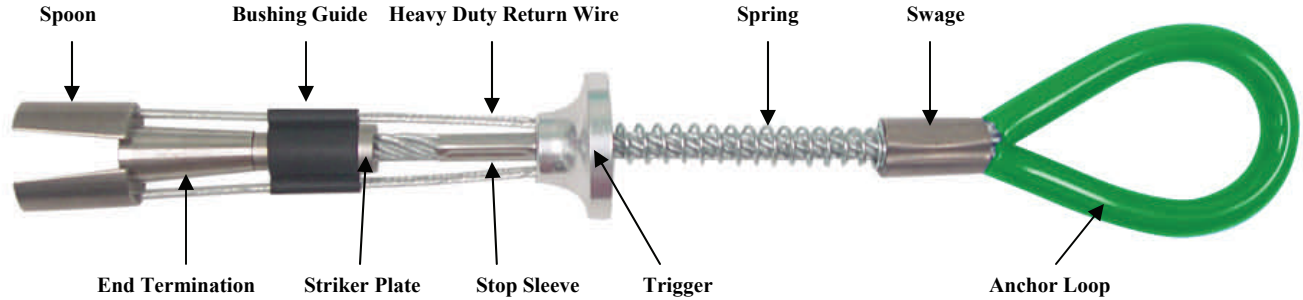
Miller Grip Anchorage - Model #496  
Portable Concrete Anchorage Connector

ANSI Z359.1 5,000 lbs / 22kn

Manufactured Aug, 2007. Batch #037

**Made in the USA**

## 3/4" Miller Grip Anchorage Connector



### Warning!!

Do not use incompatible connectors with any Miller Grip Anchorage. Refer to separate instructions supplied with your connecting device.

3/4" Miller Grip  
Tested - ANSI Z359.1  
Strength - 5,000 lbs / 22kn  
Model - Miller Grip #496  
Color Coded in Bright Green Tubing

1. Follow all manufacturer's instructions.
2. Do not use incompatible connectors.
3. Always inspect your units prior to use.
4. Use the proper method of coupling to anchorage.
5. Remove unit for service if a fall has occurred.
6. Patch all holes with concrete when job is complete.
7. For use by one person only.
8. Pregnant women and minors must not use this product.
9. Designed safe working load is 400 LBS (149.3 kg). Do not exceed this weight.

**Miller's 3/4" Fall Protection Miller Grips are to be used in concrete substrate only. DO NOT use in steel, wood or any other substrate.**  
**This product is used in concrete only.**

Miller Grips can be placed in:  
\* Horizontal surfaces  
\* Vertical surfaces  
\* Overhead / ceiling surfaces

### IMPORTANT!!

All persons using this equipment must read and understand all instructions. Failure to do so may result in serious injury or death. If a fall occurs, the Miller Grip must be disposed of according to the manufacturer instruction. Users should be familiar with pertinent regulations governing this equipment. All individuals who use this product must be correctly instructed on how to use this device.

# Drilling for Fall Protection

This product is to be used by qualified fall protection personnel only. It is to be anchored in accordance with manufacturer's requirements in concrete substrate only. Do not anchor in uncured/wet concrete.

The model Miller Grip #496 is color coded in BRIGHT GREEN TUBING, and is used for *FALL PROTECTION ONLY*. This unit is not to be used in any other anchoring situation. Concrete must have a compressive strength of at least 3,000 PSI (20.7MPa)

- Drill a 3/4" diameter hole at least 3" deep.
- Blow hole clean with compressed air.
- Drill hole straight into substrate.
- When reusing a previously drilled hole always inspect the hole carefully.
- Insert unit 3 inches deep into hole.
- Set the unit with a slight tug on the anchor loop.
- The Stop Sleeve must always be partially inserted into the hole.
- Always inspect a previously drilled hole for deformation. Drill another proper hole if needed.
- Inspect the unit for damage each time you use it. If damage has occurred, dispose of unit.
- Never rely on a unit placed by unqualified workers.
- Remove your unit at the end of each day.
- Never leave a unit inserted in a hole overnight.
- Never drill hole closer than 6" to any edge or corner.

## **Do not drill a hole closer then 6" from any corner .**

- If a hole is 6" from an edge or corner the concrete substrate must be 12" thick and 12" wide (example - a 12" x 12" column)
- If a hole is 8" from an edge or corner the concrete substrate must be 10" thick and 16" wide (example - a 10" x 16" column)
- If a hole is 10" from an edge or corner the concrete substrate must be 8" thick and 20" wide (example - a 8" x 20" column)
- If a hole is 12" or more from any corner or edge the concrete substrate must be 5" thick.

**It is important that you drill your Miller Grip anchor hole to the manufacturer's required depth and hole structure. All holes must be 3/4" in diameter and drilled at least 3" into the substrate. The bored hole walls must be straight and parallel. NOTE: The bored hole must be of uniform diameter and free of peaks and valleys on the inner wall surfaces. Only use quality industrial grade rotary hammers and rotary hammer drill bits.**

**NEVER USE A BENT DRILL BIT!!**

**Drill a straight 3/4" diameter hole at least 3" deep into your substrate utilizing a rotary hammer drill that uses industrial grade SDS bits.**

**Only use industrial grade rotary hammer drills and drill bits.  
DO NOT USE masonry drill bits**

**Inspection:**

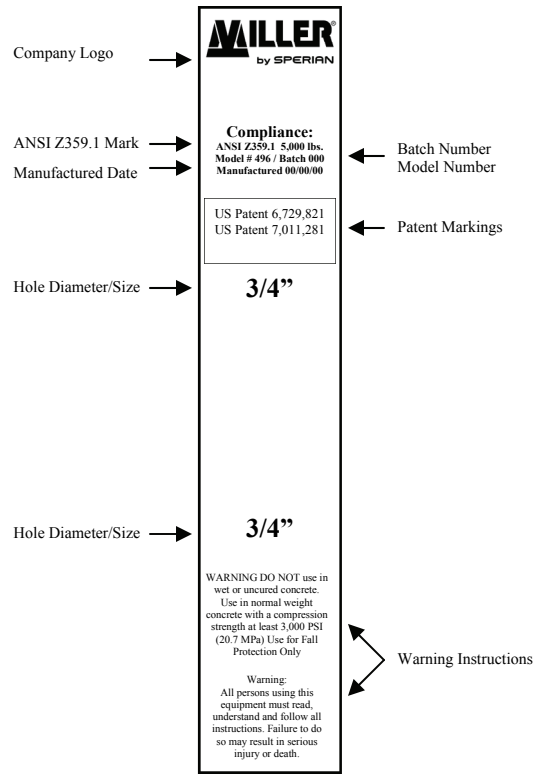
1. Make sure unit is straight and operates smoothly.
2. Make sure the label is affixed to unit.
3. Make sure trigger stop is not bent or damaged.
4. Make sure cables are not kinked, frayed or damaged.
5. Make sure metal components are not damaged.
6. Make sure metal spoons and conical end fitting operate smoothly and no metal burrs have occurred.
7. When reusing a previously drilled hole, always inspect the hole carefully.

**Storage and Cleaning:**

1. Blow off unit after each use with compressed air.
2. Store in clean dry environment.
3. Store in secure locked area.
4. Store and put away at the end of each day's work.
5. Do not pile any objects on top of unit during storage.
6. Keep unit free of grease, oils and dirt.
7. Never lend your unit to other workers.

**Disposal:**

1. Dispose of unit after any fall has occurred.
2. Dispose of unit if cable becomes kinked or bent.
3. Dispose of unit if trigger stop is bent or damaged.
4. Dispose of unit if trigger action is rough or sticky.
5. Dispose of unit if return wire becomes bent or frayed.
6. Proper disposal requires the unit's spoons be cut off the return wires and thrown away.



When placing a Miller Grip, Place your thumb inside the anchor loop and your first two fingers around the trigger. Retract the trigger until the spring bottoms out. With your other hand, pinch the two spoons between your thumb and index finger. Hold the trigger fully retracted while inserting the unit into bottom of the hole.

• Main Cable	7x19 Aircraft Cable
• End Termination	304 Stainless Steel
• Spoons	304 Stainless Steel
• Bushing Guide	304 Stainless Steel
• Stop sleeve	304 Stainless Steel
• Trigger	6061 T-6 Aluminum
• Spring	Zinc Coated Spring Steel
• Swage	Zinc Coated Copper
• Return Wire	1x19 Aircraft Cable
• Plastics	Polyurethane

