

**THE ULTIMATE
EXTRA HAND**



Connect Aim - User Manual

Key Features | Tips & Tricks | Tech Specs

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WARNING

IMPORTANT: READ BEFORE USE

WARNING: Improper use of this product may result in serious injury or death. Always read the full safety warnings and disclaimer before use. The Connect Aim is not a firearm safety device and is intended only as a stable rest for properly handled firearms. This product is not a replacement for safe firearm handling or firearm training.

GENERAL SAFETY WARNINGS

- This product is intended solely to support the front end of a firearm to assist with steady aiming. It is not designed to bear the weight of a person or to function as a structural support. Applying excessive weight or force to the Connect Aim may result in failure or slippage, potentially causing a fall or negligent firearm discharge. Serious injury or death may occur.
- Always inspect the Connect Aim before each use. Do not use it if any part is damaged, cracked, or compromised in any way.
- Ensure the Connect Aim is securely mounted to a rigid, stable structure before use. The structure must be capable of safely supporting the load and resisting movement or deflection during firearm operation. Failure to do so may result in the firearm slipping or falling, which could cause serious injury or death, or property damage.
- Users are responsible for verifying the structural integrity and suitability of the attachment point. Inappropriate attachment could result in damage, failure, or unsafe firearm positioning.
- Adjust the clamp, offset bar, and rest angle carefully to ensure a stable, level, and safe support position for the firearm. Improper adjustment can result in instability, recoil-related movement, or detachment, all of which can lead to serious injury or death.
- Do not make any adjustments to the Connect Aim while a loaded firearm is in place. Doing so may result in an unintentional discharge and cause serious injury or death.
- A firearm that is not properly supported by the rest may shift under recoil and strike the user or nearby individuals, resulting in serious injury or death.
- Improper setup or use of the Connect Aim may result in the firearm falling, becoming damaged, or discharging unintentionally. These situations can cause serious injury or death.
- Altangle Tools is not liable for any injuries, deaths, or damages resulting from improper firearm use or improper use of the Connect Aim firearm rest.

DISCLAIMER REGARDING FIREARM SAFETY TRAINING

- The safety warnings and firearm handling guidelines provided here are not a substitute for comprehensive firearm safety education or formal training. Users are solely responsible for obtaining proper instruction, understanding safe firearm practices, and knowing how to safely operate and handle their specific firearm. Failure to do so may result in serious injury or death.

FIREARM SAFETY

- Always keep the muzzle of your firearm pointed in a safe direction.
- Always confirm your target and what lies beyond it in the event of a miss or over-penetration.
- Keep your finger off the trigger until you are ready to fire.
- Ensure your firearm is unloaded before placing it on or removing it from the Connect Aim.
- Do not leave a loaded or unattended firearm resting on the Connect Aim.
- When using the Connect Aim, ensure that no part of the firearm's action, trigger area, barrel/cylinder gap (for revolvers), or ejection port is obstructed or interfered with by the rest. Interference with moving parts may cause malfunctions, damage to the firearm or rest, or result in serious injury or death.

VEHICLE USE WARNING

- Do not use this product while any vehicle is in motion. If mounted to a vehicle (including ATVs, UTVs, trucks, or other motorized equipment), the vehicle must be fully stopped, in park, and positioned on a stable, level surface before use. Operating or riding in a moving vehicle with a firearm supported by the Connect Aim poses a serious risk of negligent discharge, loss of control, serious injury, or death.

USER RESPONSIBILITY FOR LAWS AND REGULATIONS

- Always be mindful that you are handling a firearm, even when using a rest or support accessory.
- It is the user's responsibility to ensure compliance with all applicable federal, state, and local laws and regulations regarding the use, transport, and discharge of firearms. This includes any regulations governing hunting from a vehicle, discharging a firearm from a support device, or using firearm rests on public or private land.
- Certain jurisdictions prohibit shooting or hunting from a vehicle, or the use of support objects for discharge. The Connect Aim must only be used in accordance with local and federal law. Check with local authorities before use.

LIMITATION OF LIABILITY

- Altangle Tools assumes no responsibility or liability for any loss, damage, injury, or death caused by misuse, mishandling, or failure to follow these warnings and safety practices. Use at your own risk.

TABLE OF CONTENTS

Connect	Section 1
Introduction	4
Key Features	5
Tips & Tricks	6
Tech Specs	7 - 9
Assembly / Disassembly	10
Servicing	10
Parts List	11
 Accessories	 Section 2
Pro Bar	11 - 12
Assembly	11

INTRODUCTION AND PROPPER USE

BEFORE USE

- Inspect Product - Confirm all parts are intact, undamaged, and secure before each use.
- Select Proper Mounting Surface - Attach only to sturdy, rigid structures capable of safely supporting the Connect Aim and firearm.
- Recommended surface size: 0.5" to 2.5" thick.
- For larger or rounded surfaces (over 2"), TPU jaw inserts may be removed for improved grip. (Note: Removing inserts may increase the risk of surface marring or damage.)
- For flat surfaces or surfaces under 1", we recommend using the flat mount insert as a shim for improved clamping.

MOUNTING

- Clamp Securely
- Attach the clamp and tighten until firm.
- Confirm security by applying hand pressure to ensure the clamp will not shift or slip.
- Always use an unloaded firearm if testing stability with the firearm.

POSITIONING THE REST

- Adjust Length and Rotation - Use quick-release levers to set the offset bar length and rotation.
- Set the V-rest angle to align with the firearm's forend or stock (the portion forward of the action and behind the barrel — often wood, composite, or metal).
- Do not rest the barrel directly on the TPU material, as barrel heat may soften or melt the TPU. Always support the firearm using the forend/stock area to ensure proper fit and protect both the firearm and the product.
- Lock all levers and pins before placing the unloaded firearm on the rest.

FIREARM PLACEMENT

- Place Firearm Onto V-Rest - Only place unloaded firearms while adjusting.
- Ensure the firearm is stable and balanced in the V-rest.
- Do not leave firearms loaded or unattended in the Connect Aim.
- The Connect Aim is intended only as a stabilizing aid and is not a replacement for maintaining full control of your firearm at all times.

DURING USE

- Never adjust the clamp or rest while a firearm is loaded.

If Using on a Vehicle

- Vehicle must be parked, turned off, and on stable ground.
- Never use while the vehicle is in motion.

AFTER USE

- Always remove the firearm before loosening or adjusting the Connect Aim.
- Loosen the clamp to remove the Connect Aim.
- Wipe down the product and store it in a dry location.

KEY FEATURES



CNC Machined Aluminum

Precision-crafted from CNC machined aluminum and with an anodized finish, the Connect boasts exceptional durability, weather resistance, and lightweight portability.

3 Inch Jaw Opening

With a three-inch wide jaw opening, the Connect accommodates a diverse range of objects and structures.

Round objects between 0.5" – 2.5"

Square objects between 0.5" – 2.7"

Flat objects up to 2.7"

Weight: 2.5 LBS

The Connect's lightweight design offers remarkable portability without sacrificing strength or capability.

Length Adjustable

The Connect Aim features a telescoping tube design that provides length adjustment between 13" and 18" for optimal positioning and height.

50+ LBS Weight Rating

While we recommend using Connect with objects weighing less than 55 lbs (25 kg), environmental factors and attachment methods can both increase and decrease the weight capacity.

TPU Jaw Inserts

TPU Jaw Inserts are non-marring, extremely durable, and offer superior grip. They are easily removable, replaceable, and interchangeable with no tools required. Removing the inserts entirely allows for an ultra-strong grip akin to a benchtop vice.

360 Degree Rotation

The Pro Bar offers 360 degrees of precise rotation control, allowing the rest to be positioned exactly where needed.

Dual Position Clamp

The detachable dual-position clamp design features two attachment points. Change the directional offset of one or both clamps to best suit the object or surface you are clamping.

TIPS & TRICKS



Don't be afraid to really tighten down when needed

We put a big handle on there for a reason. If the structure or object you are clamping can handle the force, so can our clamp!

The same structure often offers multiple attachment points

If at first the Connect does not feel sturdy or is unable to get a grip, reposition the Connect and try again.

Clamp positioning and directional offset are important

The two holes on each clamp offer two distinct offset positions, providing a 90-degree adjustment. Adjusting this offset allows you to change how the Connect is leveraged and how force is applied to the object or support structure. This function also enables you to position the clamps upright when attached to a horizontal support structure.

Clamping to a flat surface

Depending on the width of the surface, positioning the clamp with the handle facing up or down can make a big difference in the grip it is able to achieve.

Using the Flat Mount Insert

Use the flat mount insert as a shim for objects smaller than 1" or to achieve a better grip on flat surfaces - for more details on how to use the flat mount insert see **page 7**

Removing the TPU inserts

The primary function of the TPU inserts is to safeguard the support structure from potential marring or damage during clamping. Removing these inserts will yield a direct metal-on-metal connection, particularly beneficial when dealing with substantial weight or objects such as large-diameter metal poles or beams. This configuration yields an exceptionally robust connection with zero sag or flex.

WARNING: This should only be attempted if you are confident that the support structure or object you are clamping to possesses the strength and durability to withstand the clamping force. It's crucial not to employ this method on anything that you wouldn't attach a vise grip to, as there is a heightened risk of damage or scratching when the inserts are absent.

TECH SPECS - GENERAL

Dual Position Clamp

The detachable dual-position clamp design features two attachment points (hole 1 is located on the rear of the clamp, & hole 2 is located on the bottom of the clamp).

Change the directional offset of one or both clamps to best suit the object or surface you are clamping it to.



Max Jaw Opening & Stopping Point

With a jaw opening just over 3" the Connect is capable of clamping onto structures up to 2.7" wide - for more details on shape / size compatibility please refer to **page 8**.

The clamp features an integrated mechanical / visual stopping point (pictured below) - if you continue rotating the handle after the jaw has reached its widest point, the handle / threaded rod (Part #10) will disengage from the threaded clamp pin (part #2).

There is a buffer of about three full rotations after the jaws have reached their max width before it will become fully unthreaded.

Integrating this feature into the clamp design (rather than the clamp hardware) allows all parts to be easily serviceable and replaceable by our customers.



TECH SPECS - FLAT MOUNT INSERT

When to use the Flat Mount Insert

1. Use on flat surfaces to improve grip strength and stability.
2. Use as a shim to clamp objects as small as 0.5".



How to use the Flat Mount Insert

Works in combination with existing V-Shaped Jaw insert and can be placed in either the top or bottom jaw of the clamp.

Your choice of top / bottom jaw depends on the specific structure you are clamping to and the orientation of the clamp.

Inserting the flat mount insert into different jaws and experimenting with various clamp positions can significantly impact the level of grip and stability.

As pictured above, the **Flat Mount Insert stows securely inside the hollow cavity of clamp** (positioning is important – it fits inside the hollow cavity like a puzzle piece - the 'arms' will flex in and out of position).

Only one Flat Mount Insert per clamp is necessary - Retaining the original v-shape in one jaw enables the clamp to secure itself more effectively due to the angle at which the clamp opens and closes (unlike a vise grip, which features two parallel jaws that move toward or away from each other along a straight path).

TECH SPECS: CLAMP COMPATIBILITY

Clamp Compatibility:

With a three-inch-wide jaw opening, the Connect accommodates a diverse range of objects and structures.

Round objects between 0.5" – 2.5"

The ideal size for round objects is 1" - 2" for the most secure attachment. To achieve a stronger grip on round objects greater than 2", you might consider removing the TPU inserts.

Square objects between 0.5" – 2.7"

Flat objects up to 2.7"

* For objects / structures smaller than 1" we usually recommend using the Flat Mount Insert



Please Note:

With numerous potential applications, the effectiveness of the Connect can be influenced by factors such as the object, structure, specific use case, and how it's positioned and configured. While it's impractical to list every scenario, we're here to help. If you encounter challenges with a particular application, please don't hesitate to contact us. The more details you provide—such as shape, size, weight, and even images or videos—the better we can assist you!

ASSEMBLY / DISASSEMBLY & SERVICING

Clamp Assembly / Disassembly

To disassemble the clamp, rotate Clamp Lever (Part 10) counterclockwise to fully extend jaws to maximum position. Continue rotating the lever (approximately 3 additional rotations) to completely unthread the Threaded Rod (Part 10) from the Threaded Clamp Pin (Part 2). The Upper Spring Washer (Part 7), Lower Spring Washer (Part 7) and Clamp Spring (Part 9) can now be removed from the clamp.

To reassemble clamp, install Clamp Washer (Part 6) on Threaded rod (Part 10) and insert through the top notch on the clamp (A/B). Next, install the upper spring washer (Part 7), clamp spring (Part 9), and secondary (bottom) spring washer (Part 7) before threading into the Threaded Clamp Pin (A2) by rotating the adjustable lever (Part 10) clockwise.

Make sure the threads are aligned properly so you do not strip them. You should not feel any resistance when reassembling these parts!

General Upkeep & Servicing

Clamps can be easily disassembled, cleaned / serviced and reassembled. All hardware is replaceable with readily available parts. Frequently use your Hangar Connect to wash your bike? While all our products are made from quality rust resistant material, we still recommend drying off your Connect just like you would your bike. WD-40 works great for displacing water and preventing rust / corrosion from forming on your Connect.



PARTS LIST

Part #	Description	Part #	Description
A/B 2	M10 Threaded Clamp Pin	A/B 6	Anodized Top Washer
A/B 3	TPU Jaw Inserts (X4)	A/B 7	Steel Spring Washers (X2)
A/B 4	QR Pull Pin	A/B 9	Clamp Spring
A/B 5	M6 Pivot Bolt	A/B 10	Ratchet Handle / M10 Threaded Rod



PRO BAR: USER INSTRUCTIONS

1. Please be mindful of the following safety considerations:

Adjusting both length and rotation can impact the amount of leverage and force applied to the support structure and clamp.

Periodically check that the clamp maintains a secure connection to the support structure and / or your bike.

If you observe significant sagging or slipping from one or both clamps, promptly consider adjusting, repositioning, or shortening the extension to ensure a secure and stable connection.

2. Adjusting Length & Rotation

Open the Quick Release (QR) handle to release the Pro Bar.

Make the necessary adjustments in length or rotation.

Once adjustments are made, securely fasten the QR handle back down.

Ensure that you do not apply excessive force during this process.

3. Max Extension

The maximum extension of the Pro Bar should not exceed 11.5 inches.

As pictured below, the end of the orange offset bar should not be visible through the split located on the Pro Bar. If there is a visible gap between the end of the Offset Bar and the split in the Pro Bar, you have exceeded the maximum suggested length.



PRO BAR: ASSEMBLY

Assembling the Pro Bar

The Pro Bar is comprised of two primary components: a black anodized aluminum tube and an orange aluminum quick-release lever.

1. After removing both parts from their packaging, follow these sub-steps:

Unthread the thumb screw from the Quick Release (QR) handle.

Note the presence of a washer with a grooved rubber contact plate attached to the thumb screw. It is crucial to keep this washer in place.

Ensure the rubber contact plate is flush with the base of the handle.

2. Attach the quick release handle to the Pro Bar

Insert the quick-release handle and threaded rod through the eyelets of the Pro Bar.

On the opposite side, thread the thumb screw onto the threaded rod.

While threading the thumb screw, ensure that the cam lever is in the open position.

Gently tighten the thumb screw until both contact points are flush with the eyelet.

3. Integrate the Pro Bar with the Connect

Detach the structural clamp (all black clamp) from the orange offset bar and install the Pro Bar by inserting the orange offset bar into the larger end of the Pro Bar

Gently fasten down the QR handle and reattach the structural clamp using the pull pins.



ADDITIONAL RESOURCES



Join our Altangle Owners Club on Facebook to hear from and talk with the growing Altangle community! Our founder, Squires & Scott, personally active in this group and are always down to talk shop or answer any questions you may have.

@AltangleTools



@AltangleCycling



Explore our Instagram for inspiring use cases, examples, and various clamp positioning ideas. Pay special attention to how we secure different objects and structures using Connect, so you can get the most out of yours.



Explore our YouTube for inspiring use cases, examples, and various clamp positioning ideas. Pay special attention to how we secure different objects and structures using Connect, so you can get the most out of yours.

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