

STAR-LOCK ANCHOR KITS

FOR ACTIVEVISTA CATERPILLAR TUNNELS™



ASSEMBLY AND INSTRUCTION MANUAL

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Star-Lock Anchor Plates Kit Guide

Star-Lock Anchor Plates reinforce Caterpillar Tunnel™ strength and give you peace of mind.

Utilising the combination of a heavy duty 900mm Star-picket driven into the Star-Lock Anchor Plate on a diagonal trajectory, facing down the line of the tunnel sides, and an 18mm wide x 1 metre long rebar rod firmly inserted 650mm through your soil, the 4mm thick stainless steel Star-Lock Anchor Plate is secured firmly to the ground before retaining the tunnel hoop with Brace Bands.

Star-Lock Anchor Plates are designed to work with:

- All Active Vista Caterpillar Tunnel™ Standard and Pro variants
- DIY Caterpillar Tunnels™
- Open ended Caterpillar Tunnels™
- Active Vista Sliding Door End Wall Kit designs
- Active Vista Zip-up End Walls.

Caterpillar Tunnel™ corner positions - Star-Lock Anchor Plates come in two mirrored positions;

One for Front Left/Rear Right (FL/RR) the other for Front Right/Rear Left (FR/RL) (*See image 2B*).

Additional Star-Lock Anchor Plates for tunnel sides;

either of the two plate variants can be used on non-corner hoops to replace standard anchor plates providing your tunnel sides with further reinforcement.

If you have any concerns during the build of your ActiveVista Caterpillar Tunnel™ system, please contact:

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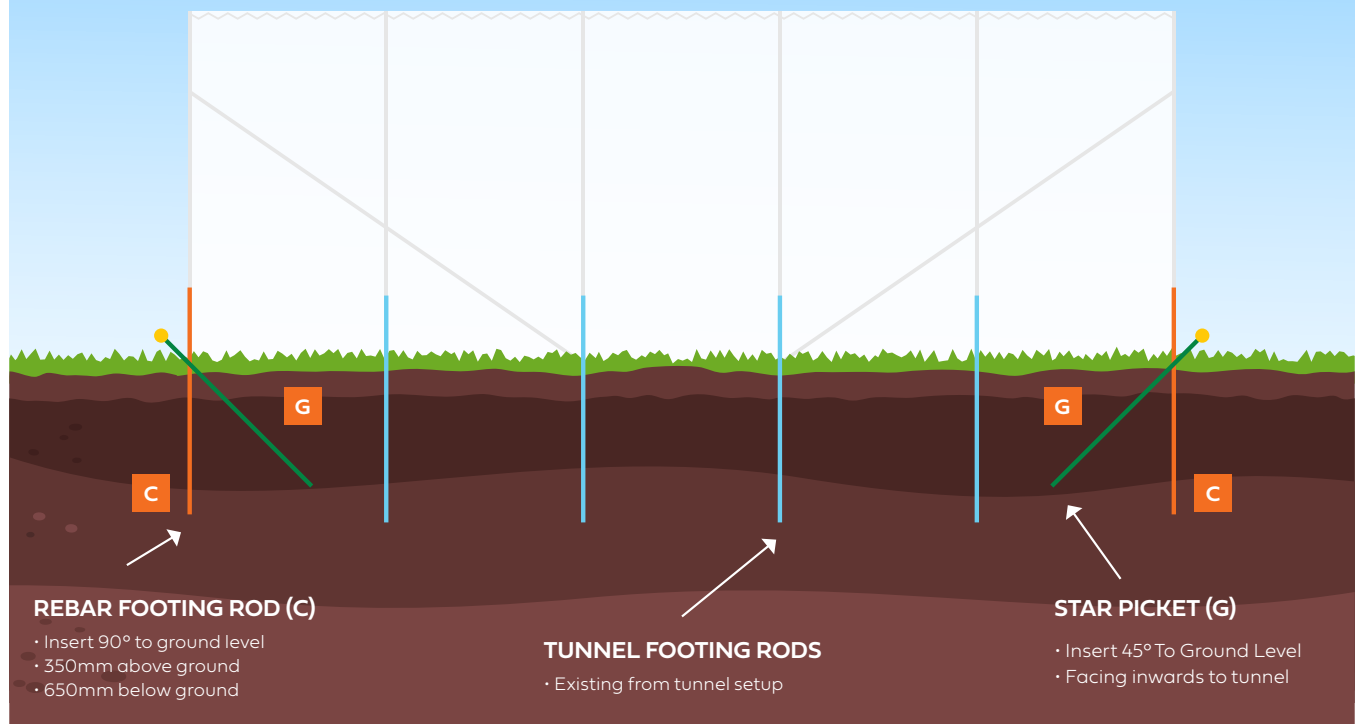


Component List

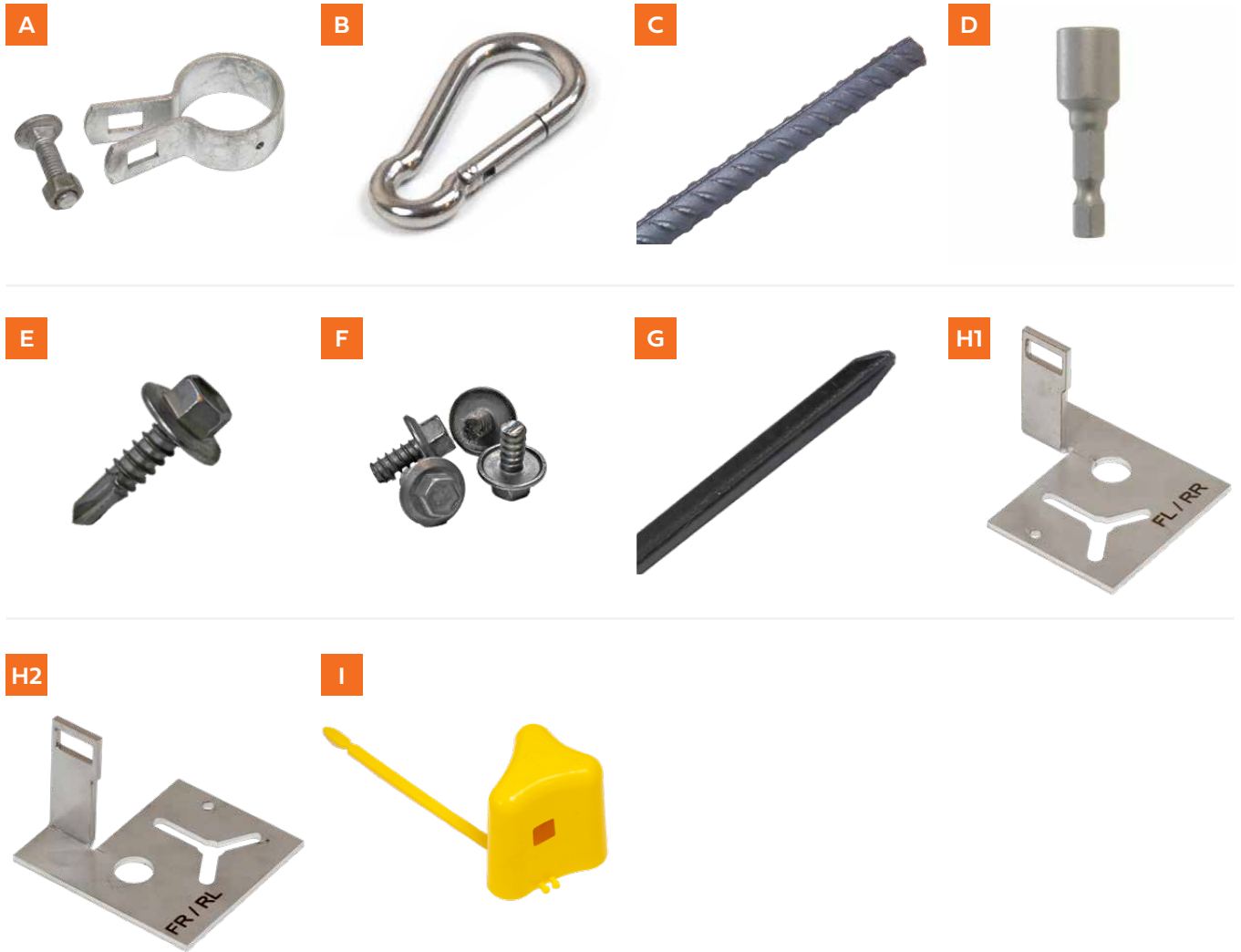
ActiveVista Star-Lock Anchor Kits Include:

Label	Description	Qty
A	32mm Brace Band + Nut and Bolt	4
B	Carabiners	4
C	Rebar Footing Rod 1000mm x 18mm (N18) Deformed rod	4
D	5/16" Nutsetter Driver	1
E	Self Tapping Screws 20mm x 12g x 5/16"	2
F	Short Bolt	4
G	Heavy Duty Star Picket 900mm	4
H1	Star-Lock Anchor Plate 150mm x 130mm x 3mm FL/RR Types	2
H2	Star-Lock Anchor Plate 150mm x 130mm x 3mm FR/RL Types	2
I	Yellow Post Cap	4

Star-Lock Positioning Diagram



Component Reference Guide



TOOLS NEEDED:

- Sledge hammer or post driver
- 18V drill
- 13mm spanner (Spanner and socket set)
- Pliers or spanners (for splaying open Brace Bands)



STEP 1

Position Rebar Footing

Parts Required:

B

C

Step 1A - New Tunnel Build

Position **Rebar Footing Rod (C)** ensure it is correctly vertical and retain **roughly 350mm above ground position**. We suggest using a star picket/post rammer upside down to do this or a sledge hammer. Alternatively if you have many to do, try hiring a two stroke post rammer.

Note: Corner Footing Rods; if the rebar is stopped by a rock etc. try moving the corner post slightly.

Non-corner Rods; if the rebar is stopped by a rock etc try moving the corner post slightly forward or backward up to 10cm, when reset, measure your hoop spacing for the next hoop position based on the first footing position. Remember to adjust the opposite side footing rod to match.

Step 1B - Retrofitting Existing Tunnel

1B.1 For Tunnel End Hoops;

First detach the rope from the **Carabiner (B)**. Undo the 400mm lift kit piece or top of the side hoop section. You may need to partially remove the locking channel first.

1B.2 Lift hoop off rebar footings.

1B.3 If replacing footing rods with 18mm width type;

First remove 16mm footing rods.

Note: This can be done various ways, we recommend using a star picket puller but a car jack will also work from ground level or supported upside down from a ladder and tied to the rebar.

Then replace with upgraded rod in the same position as per Step 1A.

STEP 1A



STEP 2

Fit-Out Star-Lock Anchor Plate

Parts Required:

A

B

H

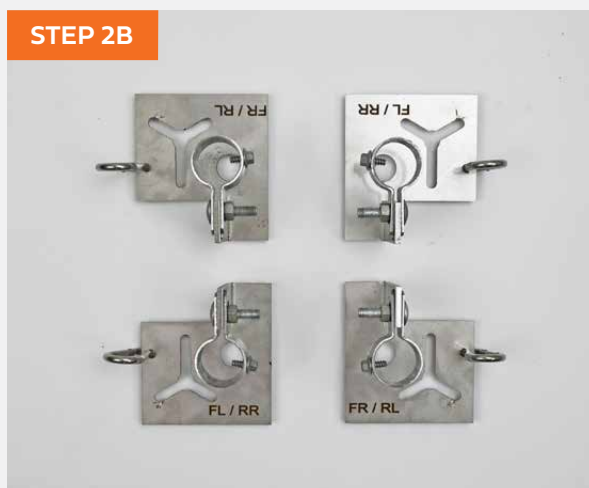
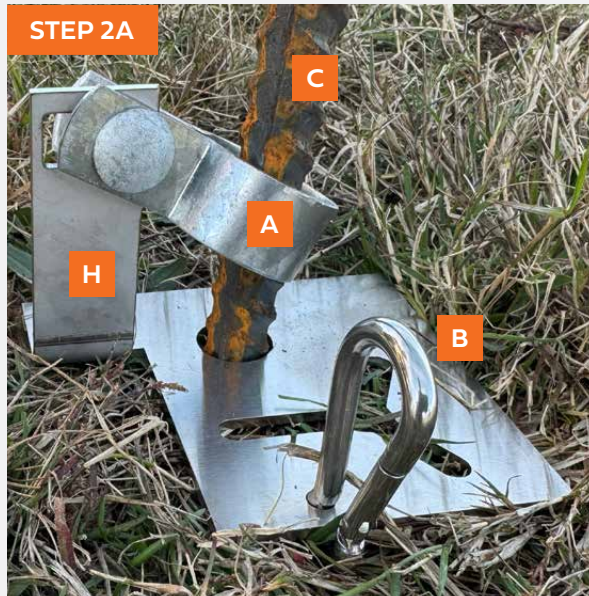
Step 2A

Attach **Carabiner (B)** to the smaller hole of the **Star-Lock Anchor Plate (H)** ensuring that the opening clasp is facing *outwards*.

Step 2B

Position **Brace Band (A)** ensuring that the small hole in the Brace Band wall is *NOT FACING* the **Carabiner (B)** and Y hole direction. Attach with the bolt head facing Carabiner and with the nut on the same side as the small hole in the Brace Band wall. (See *STEP 2B image*).

Note: Steps 2 and 3 are interchangeable.



STEP 3

Position Star-Lock and Insert Star Picket

Parts Required: **G**

Step 3A

Place **Star-Lock Anchor Plate (H)** in the corners that correspond with the initials 'FR/RL' for **Front Right** or **Rear Left** and 'FL/RR' for the **Front Left** or **Rear Right** positions (as set out in image STEP 2B).

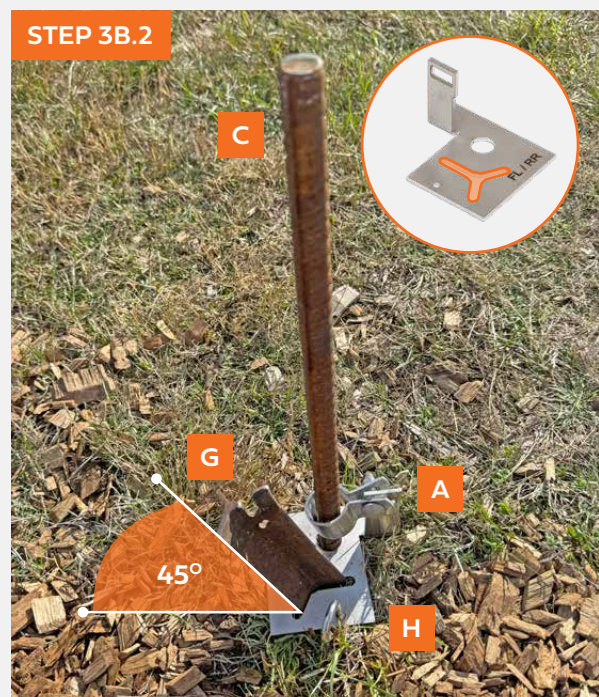
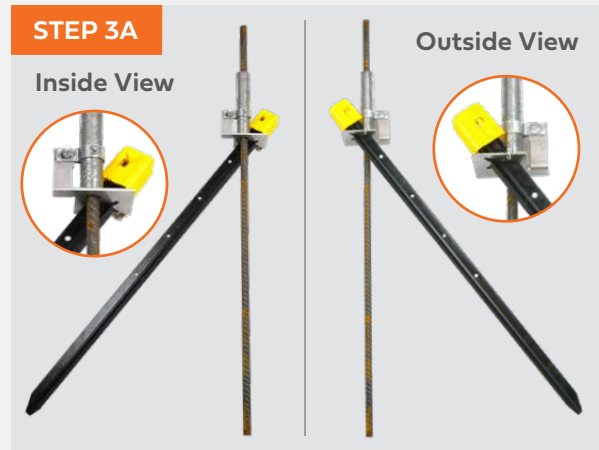
Position the Star-Lock Anchor Plate over **Footing Rod (C)**. Ensure that the **Carabiner (B)** is on the outer edge.

Square the **Star-Lock Plate** so that the **Brace Band (A)** is directed down the length of the tunnel. The bolt should now be positioned with the nut on the inner side. Now you can add the 900mm **Star Picket (G)** on a **45 degree angle** toward the length of the tunnel. Repeat for each corner. (See STEP 3A image).

Step 3B

Insert **Star Picket (G)** through the Y shaped hole facing toward the length of the tunnel, on a **45 degree angle**.

We recommend using a post rammer upside down or the other options as per Step 1A (See images Step 3B.1 and 3B.2).



STEP 4

Place Hoop Over Rebar Footing and Secure Brace Band

Parts Required:

A

E

F

I

Step 4A

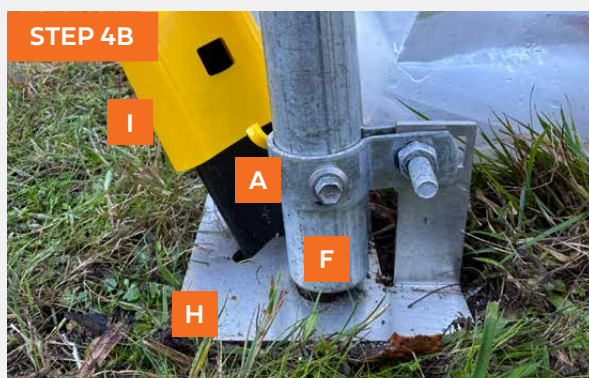
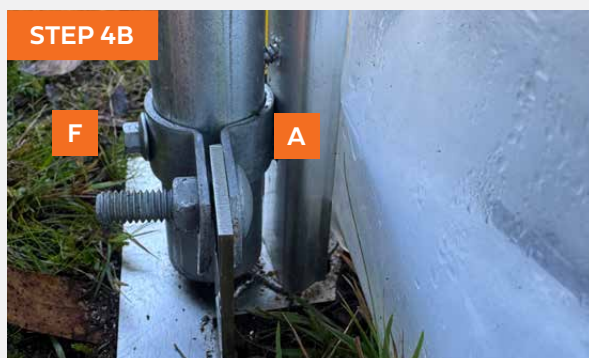
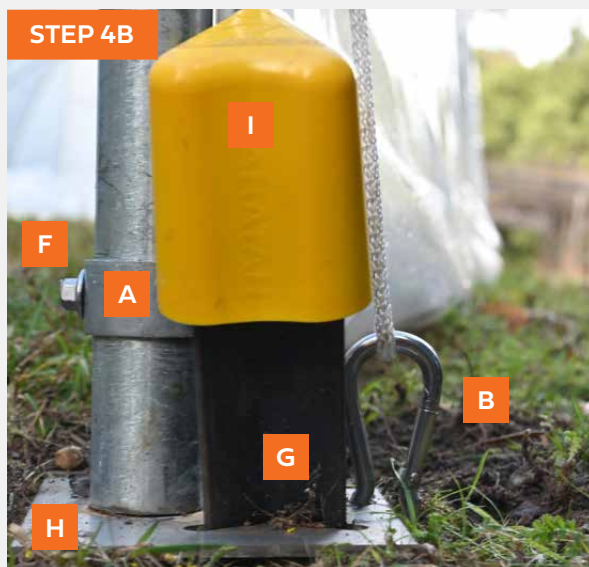
Place hoop over **Rebar Footing Rod (C)** and through the **Brace Band (A)**. Make sure Hoop is firmly touching the **Star-Lock Anchor Plate (H)** and secure bolt and nut.

Attach **Yellow Safety Cap (I)** to star picket (See Step 4A Image).

Step 4B

Attach **Short Bolt (F)** to **Brace Band (A)** by first using a **12g Hex Head Screw (E)** to drill through the hole in the side of the **Brace Band (A)** (apply using a drill with a $\frac{5}{16}$ " driver).

When the 12g Screw hits the footing rod remove the 12g screw and replace with the **Short Bolt (F)**. (See Step 4B image).





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