Adjustable Stainless Steel Photo Eye Bracket

Assembly Instructions for Telco Photo Eyes

These instructions cover mounting a Telco photo eye in its stainless steel eye bracket and installing that bracket in the adjustable main bracket. The finished assembly mounts square to the door jamb, and its slotted design lets you tilt the eye up or down to detect vehicles of different heights.



Completed assembly: Telco photo eye installed in the adjustable stainless steel bracket.

Parts (per assembly)

- Telco photo eye (transmitter *or* receiver) with its two hex nuts
- Stainless steel photo eye bracket
- Adjustable stainless steel main bracket
- Two mounting screws

Tools required

- Wrench sized for the photo eye nuts
- Phillips screwdriver

A complete system uses two assemblies: one for the transmitter eye and one for the receiver eye. Assemble both the same way.

1 Thread the inner nut onto the photo eye

Thread one of the two hex nuts supplied with the photo eye onto the threaded barrel. This inner nut sets how far the lens extends through the bracket.

IMPORTANT

Install the inner nut before inserting the eye into the bracket. It can't be added once the eye is in place.

2 Insert the photo eye into the eye bracket

Insert the eye through the hole in the eye bracket so the **wire exits on the side with the adjustment bolts** and the lens points outward.

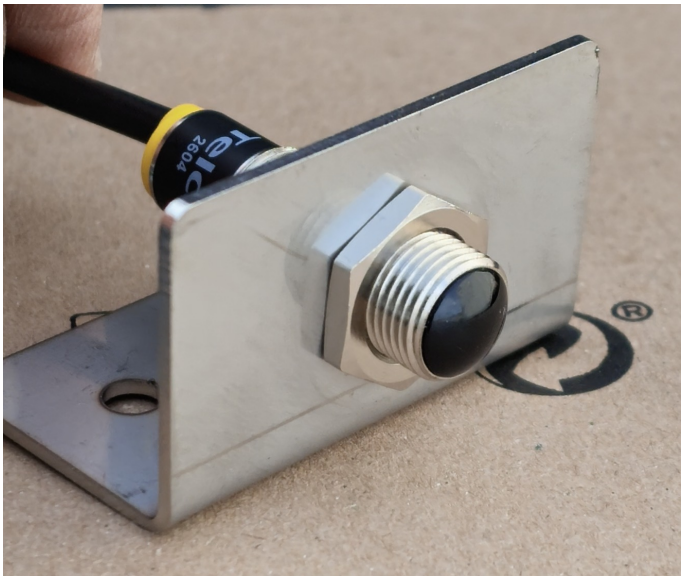
Adjust the inner nut so **1/2" to 3/4"** of the eye extends through the front of the bracket.

TIP

Check the exposed length before installing the outer nut. It is easier to adjust now than after tightening.



Wire side: the cable exits on the adjustment-bolt side.



Lens side: 1/2" to 3/4" of the eye extends through the bracket.

3 Install the outer nut and tighten

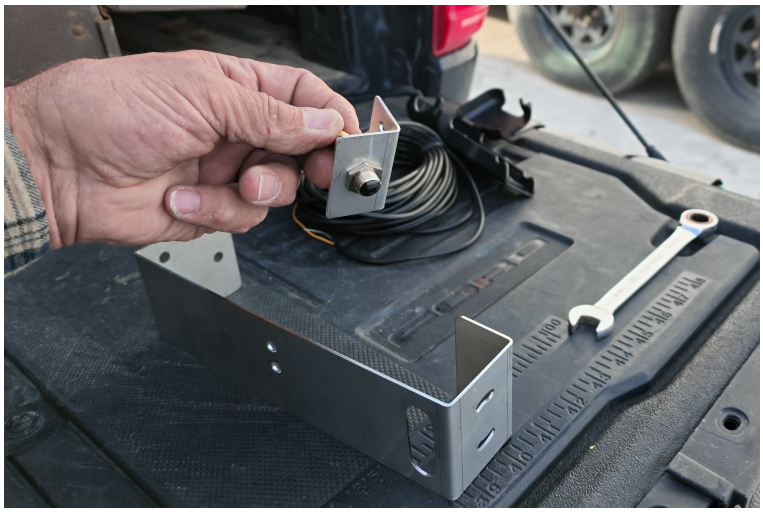
Thread the second hex nut onto the lens side of the eye so the bracket is clamped between the two nuts. Tighten both nuts securely with a wrench.

IMPORTANT

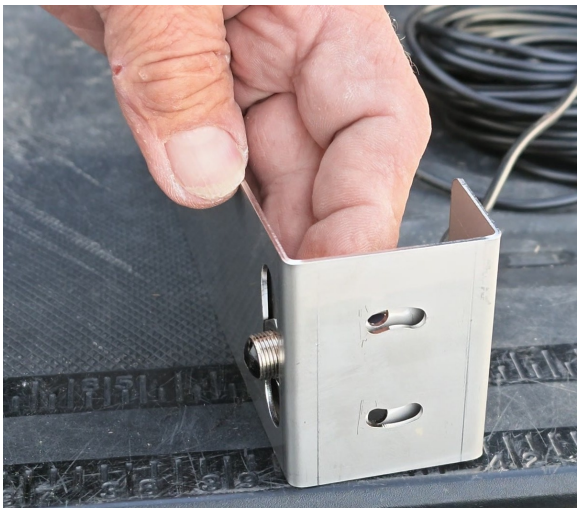
Tighten the nuts firmly. A loose eye can shift out of alignment from door vibration.

4 Position the eye bracket in the main bracket

Slide the eye bracket into the end of the main bracket. Line up the **slots in the eye bracket** with the **two mounting holes** in the main bracket. The eye should extend through the **opening** in the face of the main bracket.



Main bracket and the assembled eye bracket.



Slide the eye bracket into the end of the main bracket.



Front view: the eye shows through the opening. Note the two mounting holes.

5 Fasten with the mounting screws

Insert the two mounting screws **from the outside of the bracket**, through the slots and into the mounting holes. Tighten them so the eye bracket is held in place.

TIP

Installing the screws with the heads on the outside makes later angle adjustments easier.



Screws installed from the outside, seated in the slots.

6 Mount and align

Mount the main bracket to the door jamb so it sits level and square. To adjust the beam, loosen the mounting screws and slide or pivot the eye bracket in its slots to angle the eye up or down, then retighten.

Mount the second assembly on the opposite jamb and align the transmitter and receiver with each other.

TIP

Angle the eyes to suit the vehicles that use the door. The bracket stays square to the jamb while the eye is adjusted.

Final check

- Inner nut installed before the eye was inserted
- Wire exits on the adjustment-bolt side; lens faces out
- 1/2" to 3/4" of the eye extends through the eye bracket
- Both hex nuts tight
- Eye visible through the opening in the main bracket
- Mounting screws installed from the outside and tightened
- Main bracket level and square on the jamb; eye angled as needed
- One transmitter assembly and one receiver assembly installed and aligned

SAFETY

After installation, follow your door operator manufacturer's instructions to wire the photo eyes and test the safety reversing system before putting the door back in service.