INSTALLATION GUIDE

Tailgate Camera Relocation Cable

2022+ Toyota Tundra (3rd Gen) | 360 & Non-360 Kits

1. Determine Your Kit

Two kit variants are available, one for each Tundra camera configuration. You must select the correct kit for your trim level. Using the wrong cable will result in a non-functional camera.

KIT OPTION	DESCRIPTION
Tundra 360 Kit(PVM 360 Package)	For Tundras WITH the PVM 360 Camera Package. You have this package if there are cameras visible in your side mirrors or front grille. Cable length: 9 ft 9 in.
Tundra Non-360 Kit	For Tundras WITHOUT the PVM 360 Camera Package. There are no cameras in your side mirrors or grille. The camera in your tailgate handle is your only backup camera. Cable length: 10 ft.

How to Tell Which Package You Have

- Look at your side mirrors. If you see a small camera lens embedded near the bottom of each mirror housing, you have the 360 package.
- Check your front grille or front bumper for a forward-facing camera lens. If one is present, you have the 360 package.
- In your truck's infotainment system, if you have a "SurroundView" or "360" camera mode that shows a bird's-eye view, you have the 360 package.
- If none of the above are present, you have the Non-360 kit.

> **i NOTE**
> If you are unsure which kit you ordered, check your packing slip or contact GG Offroad at ggoffroad.com.

2. Kit Contents & Tools

Included in Your Kit

- Camera relocation cable (9 ft 9 in — 360 kit / 10 ft — Non-360 kit)
- GG Offroad camera mount (ABS housing)

- Stainless steel fasteners and nyloc nuts (included with mount, or M-size to match drilled holes)
- Two retention clips (one larger, one thinner — see Section 3 for which to use)

Tools Required

- Torx T30 bit / driver (tailgate trim screws)
- Torx T6 bit / driver (camera module screws — a precision screwdriver set works; available at Harbor Freight)
- Phillips #2 screwdriver (camera bracket screws)
- Step drill bit (for mounting hole, set to 1-inch depth)
- Drill
- Center punch

Materials Required

- Cable ties to manage excess cable
- Electrical tape (for capping unused tailgate connector — see Step 14)

> **i NOTE**
> No wiring splicing or modification is required for either kit. Both are fully plug-and-play.

3. Remove the Camera from the Tailgate

The tailgate may be on or off the truck for this step. If you are installing for a slide-in camper, the tailgate is likely already removed, which makes this step easier.

Step 1 — Remove the Tailgate Trim Panel

1. Using a Torx T30 driver, remove all T30 screws from the tailgate trim panel. Set the screws aside in a safe place.
2. Locate the top trim piece. It is slightly slid underneath the main trim before it is clipped in — pull upward to release it, then shimmy it off the tailgate. Do not pull straight out or you may break the clips.
3. With the top trim piece removed, you now have clear access to the camera assembly and its connectors.

Step 2 — Disconnect the Camera Connector

4. Locate the **gray connector with red and green wires**. This is your camera connector. Unclip it from the harness.
5. Carefully route the connector free from any retaining clips in the trim panel.

Step 3 — Remove the Camera Bracket

6. Two Phillips screws secure the camera bracket to the tailgate. Remove both screws.
7. Lift the camera bracket away from the tailgate.

Step 4 — Remove the Camera Module from the Bracket

8. Using a Torx T6 driver, remove the **two small T6 screws** that secure the camera module to the bracket. These are small — do not lose them.
9. With both screws removed, the camera module is now free from the bracket.

> **i NOTE**
> You will be reusing your OEM camera module. If you prefer to purchase a spare, note that a replacement module requires recalibration at a Toyota dealership.

4. Install the Camera into the GG Offroad Mount

Step 5 — Select the Correct Retention Clip

The kit includes two retention clips: one larger and one thinner. Different Tundra trim levels use camera modules of different depths. Only one clip will work correctly for your camera module.

10. Test-fit the larger clip first. Insert the camera module into the GG Offroad mount housing and attempt to press the clip into place.
11. If the larger clip is too loose or the module does not seat firmly, switch to the thinner clip.
12. The correct clip will hold the module flush and secure with firm hand pressure. A loose or proud fit means you have the wrong clip.

Step 6 — Mount the Camera Module

13. Orient the camera module correctly: **clip side down, alignment keys facing down, text on top of the camera facing up**. The press clip should be on the bottom side when installed.
14. Slide the camera module into the front of the GG Offroad housing.
15. Press the retention clip into place on the back of the housing until it is flush.
16. Tug gently on the module to confirm it is locked. It should not pull free with normal hand force.
17. Verify that the cable connector on the back of the module is accessible and can be plugged in.

> **i NOTE**
> Do not install the mount upside down. The clip and keys both face down. When in doubt, the printed text on the camera module face should be readable right-side up from behind the truck.

5. Connect the Cable Under the Truck

All connections are made underneath the truck bed, near the spare tire. You do not need to be on a lift — crawling under from the rear is sufficient.

Step 7 — Locate the Distribution Block

18. Locate the **spare tire** under the truck bed.
19. To the **left of the spare tire**, you will find the Toyota distribution block — a connector hub where the GG Offroad cable plugs in.

Step 8 — Connect the GG Offroad Cable

The non-360 GG Offroad cable has two connectors that plug into the distribution block:

Connector	Signal / Purpose	Notes
Middle connector	LVDS camera signal (video feed)	Required for camera image
CANBUS connector	CANBUS (red & green wires)	Eliminates warning triangle on dash

The 360 package has a single plug with all signals

20. Plug the camera cable connector into the middle port of the distribution block. Press firmly until you hear and feel it click.
21. Plug the CANBUS connector into its corresponding port on the distribution block. Press firmly until it clicks.
22. Give both connectors a gentle tug to confirm they are fully seated.

> **⚠ IMPORTANT**
> Both connectors must be plugged in. The CANBUS connection is what eliminates the yellow warning triangle from your dashboard. Missing it will not affect the camera image, but the dash warning will remain.

Step 9 — Test the Camera Before Mounting

23. Before drilling any holes or finalizing the mount, test the camera. Get in the truck, start the engine, and shift into reverse.
24. Confirm the backup camera image appears on your infotainment screen and that the backup guidelines are displayed.
25. Confirm no warning triangle or “Camera Unavailable” message appears on the dashboard.
26. If the image is good, proceed to mounting. If not, see Section 7 (Troubleshooting) before continuing.

6. Mount the Camera & Manage the Cable

Step 10 — Mark and Drill Mounting Holes

The GG Offroad mount is designed to attach to the steel plate above the tailgate opening, or to a slide-in camper offset from the door. Choose your mounting location before drilling.

27. Hold the mount against your chosen surface and mark: **one center hole for the cable pass-through (1-inch diameter)**, and **two side holes for the mounting fasteners**.
28. Center-punch all three marks to prevent drill bit walking.
29. Use a step drill bit set to 1-inch depth to drill the center cable hole.
30. Drill the two fastener holes using the step bit or an appropriate drill bit for your fastener size.

> ⚠ **IMPORTANT**
> Before drilling, check behind the mounting surface for any wiring, fuel lines, or aftermarket components that may have been routed there. Visually inspect and probe with a finger before committing to the drill.

Step 11 — Install the Mount

31. Pass the cable connector from the back of the camera mount through the 1-inch center hole.
32. Align the two side mounting holes and insert the stainless steel fasteners from the front.
33. Thread nyloc nuts onto the fasteners from the back and tighten securely. Nyllock nuts prevent backing out over time from vibration.
34. Confirm the mount is firmly seated and does not move or rotate.

Step 12 — Cable Management

Proper cable management is important for long-term reliability. The GG Offroad cable uses a digital twin twisted pair with foil shielding — kinking the cable can permanently damage signal integrity.

35. Route the excess cable in large, gentle loops. Do not create tight bends or kinks anywhere along the run.
36. Zip tie the looped excess cable to the **existing Toyota harness under the truck**. This keeps the cable from flopping loose while driving, which can cause connectors to work loose over time and lead to wire fatigue at stress points.
37. Use additional cable ties every 6–12 inches along the run wherever the cable is not naturally constrained.
38. Confirm there are no sections of cable that could contact sharp edges, exhaust components, or moving suspension parts.

> **i NOTE**
> Maintain a minimum bend radius of approximately 2 inches throughout the cable run. Never coil the cable tightly or zip tie it into sharp corners. A clean, wide loop zip-tied to the existing Toyota harness is the ideal method.

Step 13 — Handle the Unused Tailgate Connector (if applicable)

On some Tundra configurations, there is a third connector that was present on the tailgate but has no corresponding mate in the GG Offroad kit. This connector is unused but must be protected from moisture.

39. Locate any unterminated connector ends remaining after the install.
40. Wrap each exposed connector end fully with electrical tape to keep moisture and debris out.
41. Secure the wrapped connector to a nearby harness with a cable tie so it does not hang loose.

7. Troubleshooting

Symptom	Likely Cause / Fix
No camera image in reverse	Check that the middle (LVDS) connector is fully clicked into the distribution block. Check the camera module is fully seated in the GG Offroad mount and the connector at the back of the module is plugged in.
Yellow warning triangle on dash	The CANBUS connector is not fully plugged in. Press it firmly into the distribution block until it clicks. A loose fit will trigger the warning even if the camera image appears.
"Camera Unavailable" error on screen	Confirm both connectors are seated. If error persists after reseating, power cycle the truck (turn off, wait 30 seconds, restart).

Camera image is present but backup guidelines are missing	The CANBUS connector may be loose or only partially seated. Reseat it firmly at the distribution block.
Camera module does not click into GG Offroad mount	You may be using the wrong retention clip. Switch to the other clip included in the kit. See Section 4 Step 5 for details.
Camera image is blurry, distorted, or has lines	The cable has likely been kinked or bent too sharply. Inspect the full cable run for tight bends. Straighten any kinks and retest. If damage is suspected, contact GG Offroad.
Mount is loose or rotates after install	Ensure nyllock nuts are fully threaded and tightened. If the mounting surface is thin sheet metal, consider adding a backing plate for additional clamping area.
Ordered the 360 kit but have a Non-360 Tundra (or vice versa)	The cables are not interchangeable — the connectors are physically different. Contact GG Offroad at ggoffroad.com/contact-us. An exchange or standalone cable may be available.

8. Support & Resources

If you run into any issues not covered above, GG Offroad is here to help:

- Install video: youtube.com/@GG.OFFROAD
- Product pages: ggoffroad.com/store/p/toyota-tailgate-camera-relocation (360) and ggoffroad.com/store/p/tundra-tailgate-non-360 (Non-360)
- Contact: ggoffroad.com/contact-us

i NOTE

This guide covers the 2022+ Toyota Tundra (3rd Gen) only. If you have a different vehicle, contact GG Offroad before proceeding.