











## Wireless Transparent Trailer® System

### TRNS-2101



Recommended Tools				Difficulty Level
 Wrench	 Wire Strippers	 Wire Cutters	 Electrical Tape	
 Screw Driver	 Panel Removal	 Zip Ties	 Socket Set	<b>Install Time</b>
				 1hr 30m - 2hr
Questions? Call the Brandmotion technical support line at (734) 619-1250				

## Kit Contents

### Recommended Tools

### Components for installing the *TRNS-2101*



### Kit Contents:

1x Video Mirror & Power Harness

1x Wireless Camera & Receiver

2x Wireless Antenna

1x 5M 4-Pin Extension Cable

1x Wired 4-Pin Rear Vision Camera

1x Pre-Wired Adapter Mounting Plate

1x Universal Mounting Plate

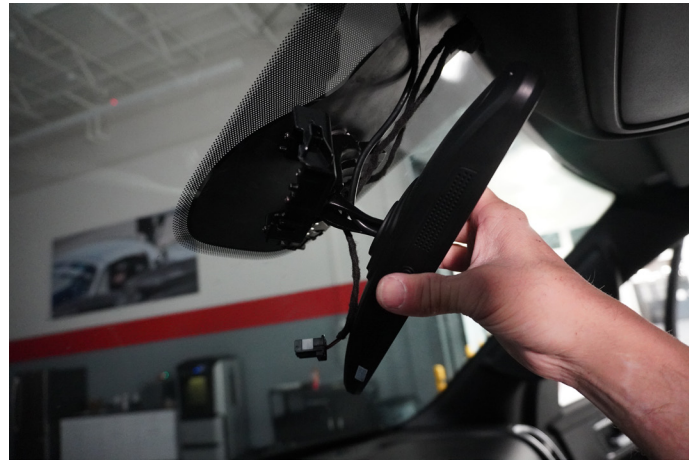
## Installation of the Transparent Trailer Mirror & Wire Connections

### Part 1

### Attaching the Transparent Trailer Mirror to the Windshield

1. Remove the old mirror from the mount on the windshield as per manufacturer's directions. Be sure to use the proper removal tool if required.
2. Install new mirror onto the D-tab and tighten with a Phillips screwdriver.

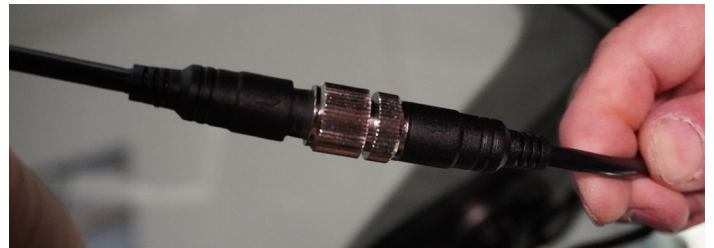
Use a screwdriver not a drill.  
Take care not to overtighten.  
Overtightening could result in damage to your windshield.



### Part 2

### Powering the Transparent Trailer Mirror

1. Connect the power harness to the plug on the mirror. Route the harness across the top of the headliner, along the windshield, down the A-pillar, and to the desired location in the kick panel.
2. Ensure that the harness will not be pinched when trim panels are replaced.



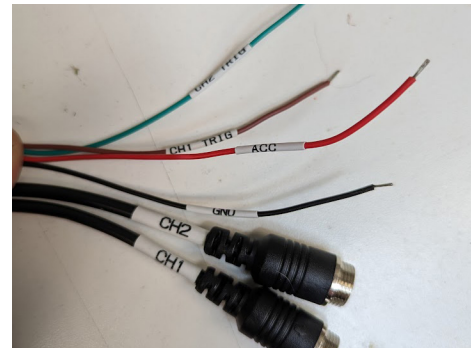
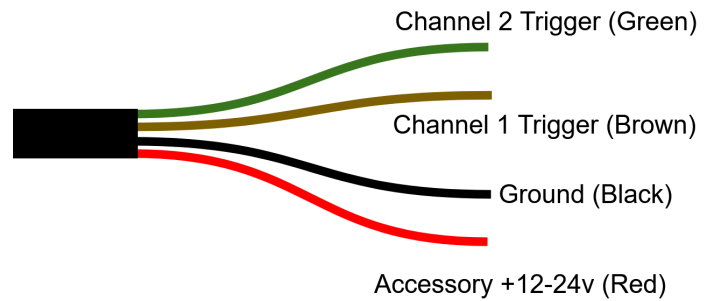
## Installation of the Transparent Trailer Mirror

### Part 3

### Wiring the Transparent Trailer Mirror

1. Connect the RED wire from the mirror harness to 12-24 volt accessory power.
2. Connect the BLACK wire to ground.
3. The BROWN and GREEN trigger wires are optional and can be wired up to reverse lights, switches, or buttons to automatically select the appropriate view. 12-24v

Note: Brandmotion recommends soldering and using heat shrink tubing for wire connections to ensure the most reliable install.



### Part 4

### Function test of the Transparent Trailer Mirror

1. Connect the wired rear camera directly to AV1 on the mirror harness.
2. Test the mirror and camera by turning on the ignition power. You should be able to see the view from the rear camera after the mirror powers up.

Note: If the mirror displays a blue screen push the button at the bottom to switch channels.



## Running Wires

### Part 5

### Wired Camera Installation

1. Pick a desired mounting location for the wired camera.
2. Mount the wired camera using 3M tape or provided screws.
3. Pass the 4-pin camera connector to the inside of the vehicle either using an existing gromet, panel, or by drilling a new hole.
4. Connect the 5m 4-pin Extension Cable to the mirror power harness AV1
5. Run the 5m 4-pin Extension Cable through the vehicle towards the rear camera.
6. Connect the 5m 4-pin Extension Cable to the camera. Make sure to line up the arrows on the connectors. Screw the connector tight.





## Installation of Wireless Camera Receiver

### Part 6

### Connecting & Mounting the Wireless Camera Receiver

1. Screw the large antenna onto the threaded antenna mount on the receiver.
2. Connect the receiver to AV2 on the mirror power harness.
3. Find a place in the kick panel or high trim on the dash of the truck to mount the receiver.
4. Zip-tie or screw the receiver down to ensure it doesn't fall out.

Note: For best performance, mount the receiver as high up in the vehicle as possible and with the antenna pointing upward.



## Camera Mounting & Power

Identify if your trailer is pre-wired for a wireless camera i.e Furion. If so, use the adapter mounting plate and power adapter (Section A). If not, use the universal mount and power harness (Section B).

### Section A

#### Pre-Wire Camera Power Connections and Mounting

1. Locate the pre-wire housing mounted to the rear of the trailer.
2. Remove the 4 Phillips screws holding the square cover plate on. Discard the cover plate, but **Keep the screws for a later step.**
3. Inside the housing, there should be an aux style barrel power connector. Plug in the supplied power adaptor and tape the connection.
4. Attach the adaptor mounting bracket to the back of the camera supplied in the kit to the back of the camera by using the 4 small black Phillips screws supplied in the kit. Feed the wire through the slot in the center
5. Plug the power connection of the camera into the power adapter connected in step 3. Tape the connector.
6. Push all the extra wire slack into the hole in the housing where the power wire is coming from.
7. Attach the antenna to the camera.
8. Align the mounting plate to the 4 holes in the housing. Attach the mounting plate with the 4 screws removed in step 2. Be careful not to over-tighten the screws.
9. Test the camera with the mirror by turning on vehicle accessory and the trailer lights to supply power to the camera. Confirm power with the red light.
10. Select Channel 2. If you see an orange truck and trailer instead of video from the wireless camera, follow the steps in Part 7: "Pairing a Camera".

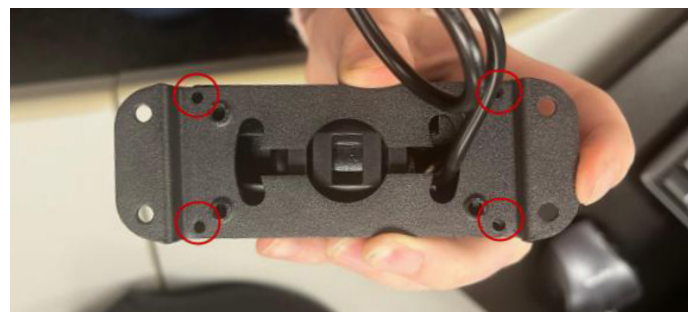
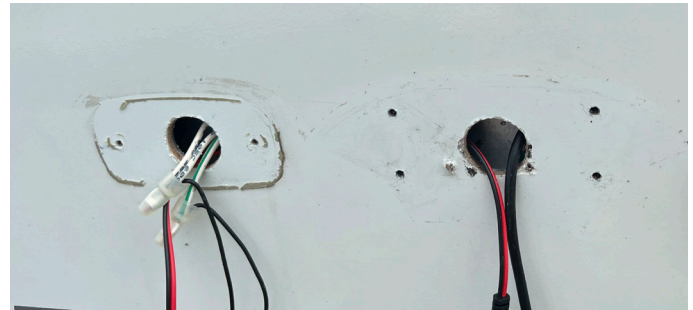


## Camera Mounting & Power

### Section B

### Universal Camera Power Connection and Mounting

1. Remove the rear center top marker light so the wiring is exposed.
2. Splice the power harness into the power & ground wires that are connected to the light.
3. Feel inside the hole where the light power wires are coming through to find out where the "stud" of the trailer wall is to see where you can drill a hole to run the power connector of the harness through for the camera. (If the stud is next to the power wire hole, drill a ½ inch hole under the center marker light. If the stud is under the power wire hole, drill a ½ inch hole next to the center light between the center and right side marker light.
4. Run the connector or the camera power harness through the hole just drilled.
5. Reinstall the light that was removed in step 1. Make sure the base plate of the light is sealed to the trailer wall to prevent water from entering.
6. Connect the universal mounting plate to the back of the camera by using the 4 small black Phillips screws.





## Camera Mounting & Power

### Section B

### Universal Camera Power Connection and Mounting Cont.

1. Connect the power harness to the camera. Tape the connector to make sure it does not come unplugged.
2. Push all the extra wire slack into the drilled hole, until the camera bracket touches the trailer. Mark the 4 holes to drill for mounting.
3. Pull the camera away from the trailer and drill the 4 holes.
4. Push the wires back in the hole and seal them with silicone. Mount the camera with the 4 Phillips screws that were just drilled.
5. Attach the antenna to the camera.
6. Test the camera with the mirror by turning on vehicle accessory and the trailer lights to supply power to the camera. Confirm power with the red light.
7. Select Channel 2. If you see an orange truck and trailer instead of video to the wireless camera, follow the steps in Part 7 : "Pairing a Camera".



## Pairing a Camera

### Part 7

### Pairing Camera

1. Once the system is fully wired up, turn vehicle accessory and the trailer lights on to turn the system on. The camera and receiver may automatically pair. If not, proceed to the next step.
2. Press the bottom button on the mirror to select Channel 2. You should see an orange truck and trailer.
3. Press & hold the red button on receiver until the green light starts flashing. The system will go into pairing mode for 15 seconds.
4. Ensure the camera is powered on, then press and hold the button on the bottom of the camera for 3 seconds and then release.
5. The system should now show video to the wireless camera. The green light on the receiver will stop flashing and stay illuminated.

Note: It may be helpful to have a second person press the button on the camera once you put the receiver into pairing mode.

Note: An alternative method is to power the camera off and back on (power cycle) after putting the receiver in pairing mode.

Tip: If the camera is wired to the trailer lights, turn off the trailer lights, put the receiver into pairing mode, then turn your trailer lights on.

