



Pro Trailer Backup Assist with Trailer Reverse Guidance Sensor Setup

To use the fifth wheel and gooseneck capabilities of the system, you need the sensor kit and the 7/12 pin trailer connector. If your vehicle is equipped with the fifth wheel prep package, you have everything you need. If it is not, contact your Ford dealership to purchase the sensor kit and the 7/12 pin connector.



Mount the sensor to a vertical part of the trailer that pivots and moves when you turn your vehicle. Do not mount to a stationary surface or to the truck side of the fifth wheel trailer hitch.

Make sure the arrows on the sensor housing are facing up.



When you plug in the sensor connector, make sure the red seal on the connector is not visible when the connector is fully plugged in.

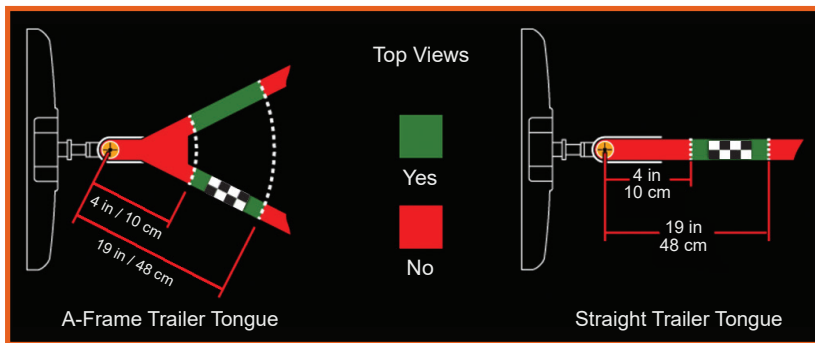
For sensor installation instructions, refer to the sensor kit.



Pro Trailer Backup Assist with Trailer Reverse Guidance Sticker Placement

Placement Tips

- Perform sticker placement when temperatures are above 32° F (0° C).
- Clean the trailer.
- Place the sticker:
 - On a flat, dry, horizontal surface.
 - Entire sticker must be visible to the camera located in the tailgate handle.
 - Within the green zone as shown below, between 4 -19 in (10-48 cm) from the trailer ball hitch.
 - Lengthwise on the trailer tongue.



WARNING: Once placed, sticker cannot be moved. Do not attempt to reuse stickers. Contact your dealer if you need assistance setting up your trailer.



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CARD/STICKERS POCKET (SLEEVE)

IMPORTANT

The operation of the pro trailer backup assist with trailer reverse guidance depends on how and where you place the sticker or sensor.

- DO NOT ATTEMPT TO PLACE THE STICKER OR SENSOR UNTIL YOU READ THIS GUIDE.
- You can purchase additional stickers through your Ford dealer.



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This Quick Start Guide is not intended to replace your vehicle Owner's Manual, which contains more detailed information concerning the features of your vehicle, as well as important safety warnings designed to help reduce the risk of injury to you and your passengers. Please read your entire Owner's Manual carefully as you begin learning about your new vehicle and refer to the appropriate chapters when questions arise. All information contained in this Quick Start Guide was accurate at the time of duplication. We reserve the right to change features, operation and/or functionality of any vehicle specification at any time. Your Ford dealer is the best source for the most current information. For detailed operating and safety information, please consult your Owner's Manual.

WARNING: Driving while distracted can result in loss of vehicle control, crash and injury. We strongly recommend that you use extreme caution when using any device that may take your focus off the road. Your primary responsibility is the safe operation of your vehicle. We recommend against the use of any hand-held device while driving and encourage the use of voice-operated systems when possible. Make sure you are aware of all applicable local laws that may affect the use of electronic devices while driving.

LEARN MORE ABOUT YOUR NEW VEHICLE

To put QR tags to work for you, use your mobile phone's browser or app store to download a QR tag reader. Then follow the directions to scan the QR tag and see your vehicle's features come to life.



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2023 SUPER DUTY

PRO TRAILER BACKUP ASSIST WITH TRAILER REVERSE GUIDANCE

QUICK START GUIDE



WHAT IS PRO TRAILER BACKUP ASSIST WITH TRAILER REVERSE GUIDANCE?

The pro trailer backup assist with trailer reverse guidance utilizes the control knob on your instrument panel, your steering wheel and a suite of cameras to take the guesswork out of positioning the trailer where you want it, quickly and easily, while you're driving in reverse.

Turn the knob in the direction you want the trailer to go and the system takes over the steering to get it there. This allows you to focus on monitoring the mirrors and applying the brake and accelerator. Use the cameras and on-screen guidance to make even the most difficult maneuvers simple. This guide walks you through the set up process, calibration and operation.

Below is some of the added functionality that pro trailer backup assist with trailer reverse guidance provides:

TRAILER REVERSE GUIDANCE CAMERA



See the camera view on the side where your trailer is moving, or both sides when the trailer is straight behind you.

Does not require setup.

STEER TRAILER WITH KNOB



Allows you to easily maneuver a trailer by turning the knob in the direction you want the trailer to go.



See page 13 for operation.

Setup required.

HITCH ANGLE GRAPHIC



A small top view representation of your truck and trailer.

The lines show you where your trailer is and where it is projected to go.

See page 17 for operation.

AUTO SPLIT-VIEW CAMERA



Changes views as the trailer moves.

See page 16 for operation.

STRAIGHT BACKUP MODE



If you want to use your steering wheel:

A steering wheel image shows you which way to turn your steering wheel to keep your trailer straight.

See page 15 for operation.

1

Read this guide carefully and follow the instructions to correctly place the sticker on your conventional trailer or install a sensor on your fifth wheel or gooseneck trailer. Doing so allows you to complete the one-time trailer setup process. Contact your dealer if you need assistance setting up your trailer.

HOW DO I USE IT?

Set up this feature by following the steps in this guide.

Complete the steps for the trailer type that you will be using.

If you are using a fifth wheel or gooseneck trailer, begin installing the sensor by following the installation instructions included with your trailer sensor.

SET UP THE SYSTEM

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SELECT THE TRAILER TYPE

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VIEW OPERATION

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HITCH ANGLE GRAPHIC

PAGE 17

TO SET UP THIS FEATURE, USE THE:

(A) Pro trailer backup assist control knob.

(B) Touchscreen.



A

B

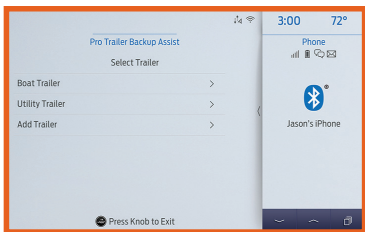
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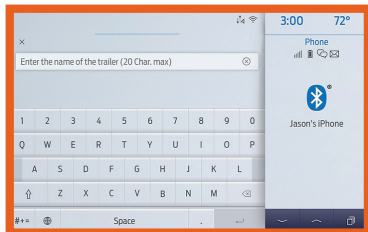
SET UP THE SYSTEM



Press the center button on the **knob** located to the right of the steering wheel to switch the system on.



Select **Add Trailer** on the touchscreen.

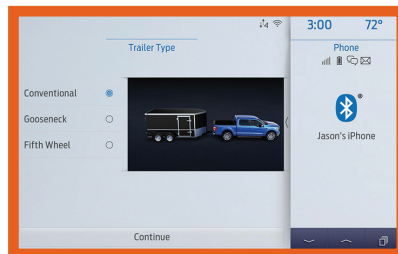


Use the keyboard on the touchscreen to enter the trailer name, then press the return button to confirm.



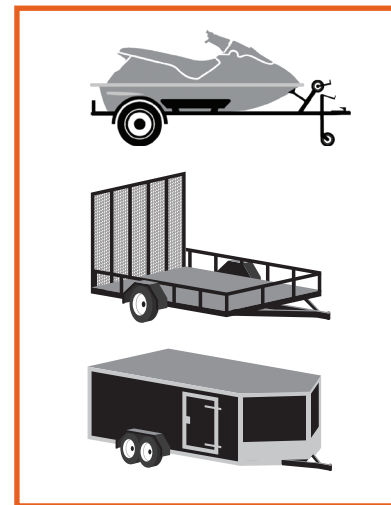
SELECT THE TRAILER TYPE

Use the images to the right to help determine your trailer type. For example, if you have a conventional trailer, select **Conventional**.



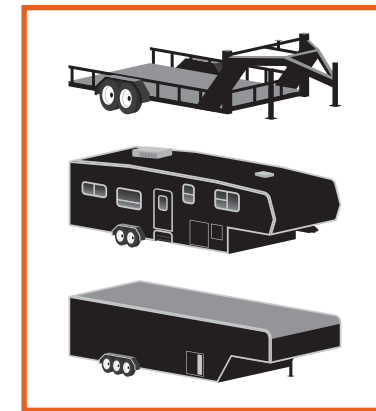
CONVENTIONAL TRAILER EXAMPLES

These trailers require the placement of a sticker. Continue on for the sticker placement instructions.



FIFTH WHEEL AND GOOSENECK TRAILER EXAMPLES

These trailers use a sensor for set up. See the installation instructions included with your sensor. If the sensor is already installed, go to **page 12**.





FEATURE SETUP



The system may prompt you to set up the trailer blind spot information system* before setting up pro trailer backup assist.

Next, a message appears in the touchscreen asking if you want to add pro trailer backup assist.

Straighten the trailer, if necessary.

The touchscreen directs you to this guide.

To continue setting up a conventional trailer, see **page 6**. For fifth wheel or gooseneck sensor installation, see the installation instructions included with your trailer sensor. For trailer calibration see **page 12**.



CONVENTIONAL TRAILER

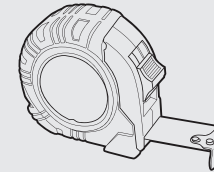
WHAT YOU NEED FOR A ONE-TIME SETUP

MAKE SURE YOU HAVE THE FOLLOWING ITEMS:

This guide with the placement guide and the stickers in the inside back cover pocket

Tape measure (English or metric)

An adult or older child assistant to help you with measurements (optional)



Scan the QR code for additional information about your vehicle.



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ONE-TIME SETUP

Once you entered the trailer's information it is stored for easy recall. That way, when you want to use the pro trailer backup assist with trailer reverse guidance system to help you back your trailer into the desired position, you can choose it from the touchscreen. You do not have to run through this setup again unless you want to add another trailer. You can store information for up to 10 trailers.



CONVENTIONAL TRAILER

POSITION YOUR TRUCK AND TRAILER

Read and follow all of these steps carefully to get the best results.

- Hitch the trailer to the truck and connect the electrical wiring harness. Check to make sure that the wiring is working.
- Park your truck and hitched trailer on a level surface.



- Make sure that the trailer and truck are in line with each other. You can do this by putting the truck in drive (D) and pulling straight forward.



FEATURE SETUP



CONVENTIONAL TRAILER

PLACING THE STICKER

Place the entire sticker in the green zone on the trailer as outlined in the diagram on **page 10**. The sticker is in the back cover pocket of this guide.



Note: An assistant can help you complete the next page's tasks.

Make sure you gather the following items before exiting the vehicle:



Sticker and placement card (inside the back cover pocket of this guide).

Tape measure (not provided).



CONVENTIONAL TRAILER



OUTSIDE THE VEHICLE

- Take the placement card and sticker from the back of this guide, a tape measure and a pen, and walk back to your trailer.
- Place the sticker in the green zone as indicated in the following diagram.
- Confirm that the sticker is visible using the touchscreen. An assistant can remain inside the vehicle to help you do this.

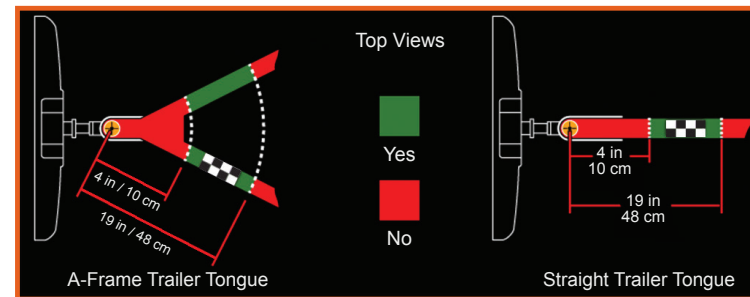
STICKER PLACEMENT TIPS

- Perform sticker placement when temperatures are above 32° F (0° C).
- Place the sticker on a flat, dry, clean horizontal surface.
- Using a tape measure, find a place to put the entire sticker in the range shown:
 - Within the green zone.
 - Between 4 -19 in (10 -48 centimeters) from the trailer ball hitch.
- Make sure no hardware such as a jack handle or wiring obstructs the view from the camera to the sticker.
- Place the sticker.



CONVENTIONAL TRAILER

STICKER PLACEMENT DIAGRAM



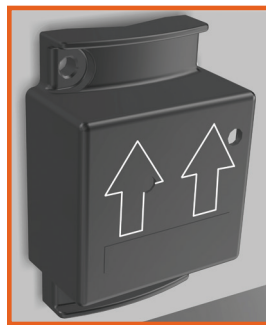
Note: Place the *entire sticker* within the green zone. Once you place the sticker, you cannot move it. Do not attempt to reuse stickers. Use a new sticker.



FIFTH WHEEL OR GOOSENECK TRAILER

SENSOR INSTALLATION

To use the fifth wheel and gooseneck capabilities of the system, you need the sensor kit and the trailer connector. If your vehicle is equipped with the fifth wheel prep package, you have everything you need. If it is not, contact your Ford dealership to purchase the sensor kit and the trailer connector.



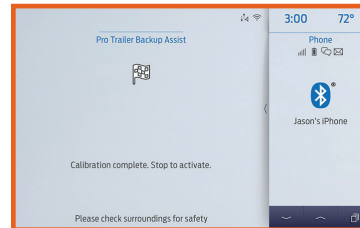
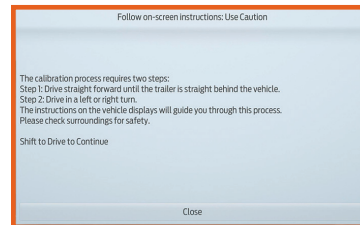
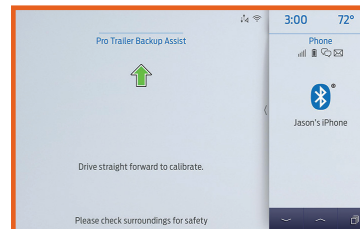
Mount the sensor to a vertical part of the trailer that pivots and moves when you turn the vehicle. Do not mount to a stationary surface or to the truck side of the fifth wheel trailer hitch.

Make sure the arrows on the sensor housing are facing up.



When you plug in the sensor connector, make sure the red seal on the connector is not visible when the connector is fully plugged in.

CALIBRATION



Note: You can calibrate within the Pro Trailer Backup Assist or Trailer Reverse Guidance system. Find an area where you can safely drive forward and turn left or right to calibrate the system. An open parking lot is an ideal place to perform the calibration. During calibration, the system determines the hitch position and trailer length. Drive straight at approximately 2-9 mph (4-15 km/h) to align the trailer behind your vehicle.

The touchscreen provides you with instructions and tells you when the system is ready for you to turn. Turn left or right whenever you are ready and in a safe turning area. Calibrating a trailer with the sticker setup requires a straight drive and turn followed by another straight drive and turn. Longer trailers could require a 180° turn. Some trailers could require you to drive straight then turn multiple times before calibration is complete.

The touchscreen displays a message when calibration is complete. The feature is now ready to use.



⊘ Too shallow of a turn



✓ Correct 90 degree turn

FEATURE OPERATION

USING PRO TRAILER BACKUP ASSIST

- To switch on the system, press the center button on the knob and watch the touchscreen. Use the steering wheel controls to highlight your trailer, then press **OK** to select. The system locates your sticker for a conventional trailer or confirms the sensor is connected for a fifth wheel or gooseneck trailer.
- Shift into reverse (R) to activate. The touchscreen display instructs you to remove your hands from the steering wheel.
- Use the knob to turn the trailer. Turning the knob to the left turns the trailer to the left. Turning the knob to the right turns the trailer to the right.



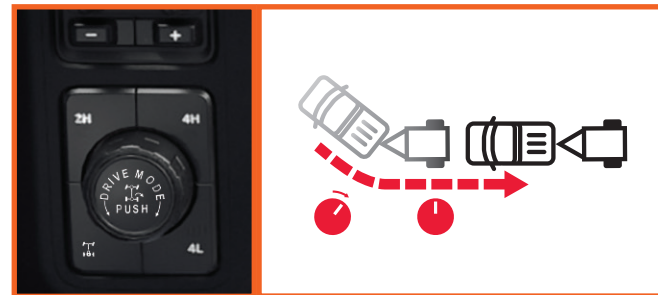
FEATURE OPERATION

USING PRO TRAILER BACKUP ASSIST

- Once you have the trailer moving in the direction you want it to go, release the knob. You control the accelerator and brakes while the system steers the truck to keep the trailer moving straight back.
- The sharper you turn the knob, the sharper the trailer turns.

Note: If you attempt to accelerate beyond the system's threshold, the system automatically limits your vehicle's speed.

Note: If you use the steering wheel when using pro trailer backup assist, the system turns off and a message displays in the touchscreen



- As soon as you release the knob or turn it back to the center position, the vehicle starts following the trailer's path.
- Turn and hold the knob for sharper vehicle and trailer turns.
- **CAUTION:** Always keep your hand close to the control knob. You may need to quickly redirect the trailer.
- You may have to use the knob to correct the trailer direction while attempting to move the trailer straight back under some conditions.

Note: For fifth wheel and gooseneck trailers, the weight and hitch position of these trailers may make the trailer respond differently to the knob input than conventional trailers. You may need to release the knob early or stop and pull forward to align your truck and trailer when returning to straight backing after making a turn.

FEATURE OPERATION

USING TRAILER REVERSE GUIDANCE

Trailer reverse guidance provides informational graphics and up to seven camera views to help you back up your trailer while you use the steering wheel to control your trailer.

If you do not set up the system, you can still use the camera views. However, the hitch angle graphic, automatic view switching and straight backup mode are not available. Complete the system setup for full functionality.



- To use trailer reverse guidance, shift your vehicle into reverse (R) and press the rear view camera button on the touchscreen to expand the menu.
- Select the trailer reverse guidance icon on the screen and select your trailer from the touchscreen.
- The system locates your sticker for a conventional trailer and confirms the sensor is connected for a fifth wheel or gooseneck trailer.
- The auto mode camera view is the default display. You can now use your steering wheel and the camera views to navigate your trailer into position.




USING STRAIGHT BACKUP MODE WITH TRAILER REVERSE GUIDANCE



- This view is only available when you are in trailer reverse guidance.
- This mode shows you which way to turn your steering wheel to keep your trailer backing up straight. A steering wheel icon image is shown on the touchscreen. A blue arrow shows you which way to turn your wheel to keep your trailer straight.
- To activate this mode, select the rear view camera icon, then the straight backup mode icon.

VIEW OPERATION

Use the buttons below to select the best view for backing up your vehicle and trailer. You can use these views for pro trailer backup assist or trailer reverse guidance.

You can select the following views by selecting the rear camera icon  on the touchscreen. The view drawer displays. (View drawer shown)



360 Camera: shows the rear camera view on the left side of the screen and the 360 degree view on the right side of the screen.



Rear View Camera: shows what is behind your vehicle.



Bed Camera: shows the truck bed and can be used to hitch a fifth wheel or gooseneck trailer.



Trailer AUX Camera*: shows a rear view camera image of what is behind your trailer. This camera needs to be purchased and installed separately.



Trailer Reverse Guidance View: shows you a view of the sides of your truck and trailer.



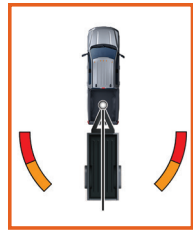
In auto mode, this view moves as your trailer moves so that you do not have to adjust the camera as you turn. You can use the left and right arrows to see more of the driver or passenger side. Press **Auto** to return to automatic camera adjustments.



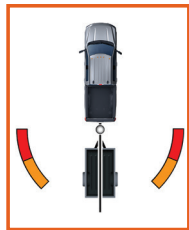
Takes you back to the 360 degree camera system and out of the trailer reverse guidance feature.

HITCH ANGLE GRAPHIC

FIFTH WHEEL TRAILER



CONVENTIONAL TRAILER



The hitch angle graphic display shows you a small, top-view representation of your truck and trailer.

This representation shows two different-colored lines:

- A black line shows you where your trailer is in relation to your vehicle.
- For pro trailer backup assist, the white line represents the amount the trailer turns based on knob input.
- For trailer reverse guidance, the white line represents the amount the trailer turns based on steering wheel position.

