

Driver Reference

What are TruckWings®?

TruckWings are an active aerodynamic device that automatically closes the gap between the cab and the trailer while the truck is operating at highway speeds to reduce drag, improve handling, and save fuel.



Scan QR code to see TruckWings video in action and learn more.



Speed < 50 mph
panels retract



Speed > 52 mph
panels deploy

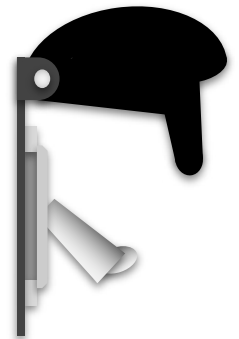
How do they work?

TruckWings open automatically and require no driver input to deploy. When a trailer is hooked up, the panels will auto-deploy at speeds above 52 mph. The panels immediately retract against the cab when speed drops below 50 mph in time for turns.

How are TruckWings controlled?

TruckWings are designed to be fully automatic. The in-dash controller reads vehicle speed and trailer distance to automatically send a signal to deploy or retract the TruckWings.

Leave the toggle cover closed for automatic operation.



| Toggle Position | Operation Modes – TruckWings Controller |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>⚠ CAUTION</p> <p>Test Mode Ensure the catwalk is clear before engaging Test Mode. Manually open panels <u>only</u> if no trailer is detected and truck is stopped.</p> |
| | <p>Service Mode Panels are manually retracted at all speeds.</p> |
| | <p>Auto Mode – Driver Default Setting Leave it down position with switch over closed for auto-deployment.</p> |

Recommended Pre-Trip Driver Inspections

| | | |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Back of Cab | <ul style="list-style-type: none"> › Check that the panels are retracted against the back of cab. › From the ground, check that TruckWings panels are held securely against the back of the cab by pulling on the panel. › Check for TruckWings components that are damaged (cracked or bent) and fasteners that appear loose, disconnected, or are missing. › From the ground, listen for any audible air leaks from the actuators behind the panels. | |
| | › Check the Trailer Distance Status on the in-dash controller after hooking up a trailer. | |
| | DIST: OK | Trailer is detected at a safe distance from cab to auto-deploy TruckWings at highway speeds. |
| | DIST: Too Close | TruckWings will not deploy at this trailer gap. Move fifth wheel rearwards if possible. |
| DIST: No Trailer | No trailer detected. TruckWings will not deploy. | SPEED: 0 MPH AVG SPEED: 0 MPH WING: AUTO CLOSED DIST: OK |
| *ERROR* | Trailer distance cannot be determined. Ask fleet maintenance to inspect - OK to drive. | |

If you have questions or note any concerns, please contact your Fleet Maintenance Team or TruckWings Technical Support for assistance.

Frequently Asked Questions

› Why should I want TruckWings on my truck?

TruckWings save fuel and help reduce the overall carbon footprint of your truck. They also improve trailer stability and overall safety by streamlining the air flowing from the tractor to trailer; reducing buffeting and trailer sway in crosswinds.

› What if I forget to retract the TruckWings before turning?

The opening and closing of TruckWings is fully automated – zero action from the driver is necessary for operation.

› How are TruckWings powered?

They use the truck's own secondary air system to drive three pneumatic cylinders controlled by a central actuated valve.

Visit truckwings.com/support for more information.

For technical support or feedback, please contact us at +1 415 857 0263 or support@truckwings.com.