

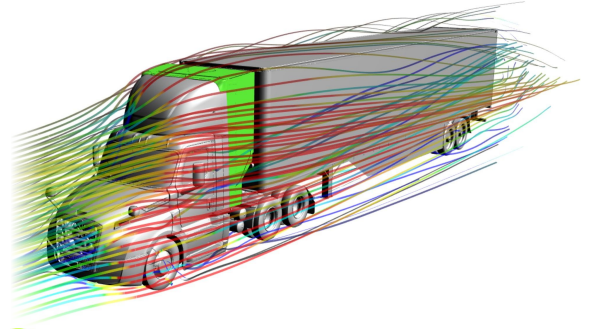
TRUCKWINGS™

ACTIVE AERODYNAMICS

QuickStart Guide

What are they?

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.



Automatic Operation

TruckWings™ require no driver input to deploy. With a trailer hooked up and in range, the panels will automatically deploy after one minute cruising above an average speed of 52 mph. The panels will immediately retract when braking below 50 mph in time for turning maneuvers.

CARBONCONNECT™

CarbonConnect™ is the in-dash brain behind TruckWings automation. This device reads vehicle data and trailer clearance from a Distance Sensor mounted on the back of cab.



SPEED: 20 MPH
 AVG SPEED: 15 MPH
 WING: AUTO CLOSED
 DIST: OK

Low Speed: TruckWings Closed

SPEED: 65 MPH
 AVG SPEED: 65 MPH
 WING: AUTO OPEN
 ROLL ON !!!

On-Highway: TruckWings Open

DIST:	Description of Trailer Distance Check
OK	The trailer is detected at a safe distance from the cab to automatically deploy the TruckWings at highway speeds. Roll on!
Too Close	The trailer is too close to the cab for the TruckWings to deploy safely. Try moving the fifth wheel back until DIST: OK is seen on the CarbonConnect. Note: TruckWings will <i>not</i> deploy for NoseCones, refrigerated, or heated trailers.
No Trailer	No trailer is detected and TruckWings will not deploy automatically.
Error	Trailer distance cannot be determined. Contact fleet maintenance for inspection.

TruckWings Technical Support

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

XS-TD20062 REV B







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Routine Trip Inspection Items

-  When retracted, check that TruckWings panels are held securely against the back of cab.
-  Check for TruckWings components and fasteners that appear loose, disconnected, or damaged.
-  Inspect hinge bushings for wear and note if there is metal-on-metal contact at the panel arm pivot points.
-  Listen for any audible air leaks.

If any concerns are noted, please contact fleet maintenance or XStream Technical Support.



WARNING



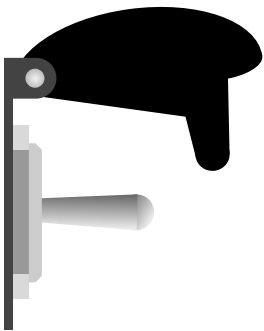
IN CASE OF SERVICE, SYSTEM MUST BE DEACTIVATED BEFORE ACCESSING AREA BETWEEN TRUCKWINGS AND BACK OF CAB. FAILURE TO FULLY DEACTIVATE SYSTEM CAN LEAD TO SERIOUS INJURY INCLUDING PINCHING, ENTRAPMENT, AND CRUSHING.





Deactivating TruckWings for Service

1. Turn ignition off and remove key, drop trailer if hooked up. Leave the CarbonConnect in **Auto Mode**. Drain the truck air tanks to 0 psi by pumping brake pedal.
2. If service requires the TruckWings to be deployed, disconnect an air line on one of the lower actuators and pull the panels open.
3. Using a small ladder for access, push the top panel up by hand and lock in place with a Vise Grip and a clean rag wrapped around the actuator rod.

Reactivating TruckWings

1. Reconnect any air lines to the actuator(s) and ensure the area is clear behind the cab. Turn on the truck to restore air pressure.
2. Open and close the system using the CarbonConnect between **Test Mode** and **Service Mode** to check for normal operation.
3. Leave the toggle switch on the CarbonConnect to **Auto Mode** by closing the toggle cover.



Toggle Position	CARBONCONNECT™ Operation Modes
	Test Mode Panels manually extend <i>only</i> if no trailer is detected and truck is stopped.  Ensure the catwalk is clear before engaging Test Mode.
	Service Mode Panels are manually retracted at all speeds. The QC Screen is displayed.
	Auto Mode Leave in this position with switch cover closed for automated deployment.

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