



**FREIGHTLINER**<sup>®</sup>

**CASCADIA**<sup>®</sup>

# DRIVE THE FUTURE

## THE BEST JUST GOT BETTER.

From the very beginning, the Cascadia® was built to be an industry benchmark – a truck that expands our approach to lowering your Real Cost of Ownership<sup>SM</sup> (RCO) while emphasizing the key role of professional truck drivers.

The Freightliner® Cascadia® represents a revolution in the trucking industry. With more than one million hours of research and development and millions of miles of real-world testing, the Cascadia is the result of a sustained, concentrated investment in the future of trucking. Our goal is a relentless pursuit in advancing the Cascadia, making sure it's always leading in efficiency, safety and technology. The Cascadia has been improved with even more groundbreaking innovations and built with cutting-edge manufacturing processes. The Cascadia will increase your productivity and profitability.

COVER: 126" BBC 72" RAISED ROOF SLEEPER CAB SHOWN WITH ELITE EXTERIOR APPEARANCE PACKAGE AND AEROX AERODYNAMIC PACKAGE







126" BBC 72" RAISED ROOF SLEEPER CAB SHOWN WITH ELITE EXTERIOR APPEARANCE PACKAGE AND AEROX AERODYNAMIC PACKAGE





FUEL EFFICIENCY

# TAKING FUEL EFFICIENCY TO THE NEXT LEVEL

**BUILDING YOUR BOTTOM LINE** begins with reducing how much you're spending on fuel. With the Cascadia, Freightliner has pushed fuel efficiency even further by focusing on aerodynamic and powertrain improvements.

## SLICE THROUGH AIR

The Cascadia with the AeroX package and the Integrated Detroit® Powertrain (IDP) is designed to be even more fuel efficient than previous generations. Advances in aerodynamics and powertrain components have contributed to increased fuel efficiency of 35% since the first Cascadia was introduced in 2007\*.



To maximize the performance of the Cascadia, engineers used computational fluid dynamics (CFD) and Daimler Trucks North America's proprietary wind tunnel — the only full-scale OEM-owned-and-operated wind tunnel in North America — to test, modify and optimize the aerodynamics, which are available in three packages.



### STANDARD FEATURES

- Optimally sloped hood and grille
- Bumper with integrated air deflector
- Aerodynamic mirrors
- Upper door seal
- Integrated antennas
- *12-inch side extenders\*\**
- *Tow hook covers*
- *A-pillar deflector*
- *Side extender seals\*\**



### AERO PACKAGE

- Standard package plus:
- 20-inch side extenders\*\*\*
  - Full chassis fairings
  - Rear wheel covers
  - *Enhanced chassis fairing skirts*



### AEROX PACKAGE

- Standard and Aero package plus:
- 24-inch side extenders\*\*\*
  - *Optimized low ground clearance bumper*
  - *Optimized roof fairing deflector\*\*\*\**
  - *Optimized drive wheel fairings*
  - *Front wheel well closeouts*

### OPTIONAL ON ALL PACKAGES

- *Aerodynamic Height Control (AHC)*
- *Michelin® X® Line™ Energy D+ Tires*

*Italics indicate new improvements for 2020.*

*\* Compared to the 2007 Columbia with a Detroit® Series 60® engine*

*\*\* Sleeper only*

*\*\*\* Cascadia Day Cabs with Aero and AeroX packages are equipped with 12-inch side extenders*

*\*\*\*\* Available on raised roof sleepers only*



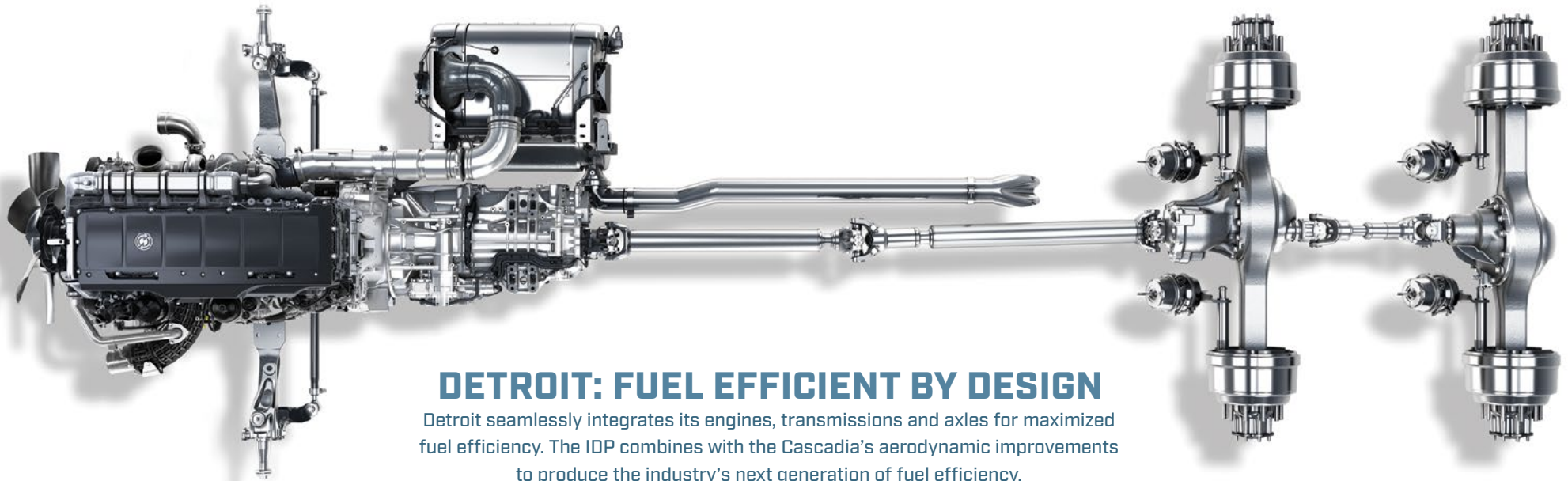


126" BBC 72" RAISED ROOF SLEEPER CAB  
UNDERGOING AERODYNAMIC TESTING IN DTNA'S PROPRIETARY WIND TUNNEL





FUEL EFFICIENCY



## DETROIT: FUEL EFFICIENT BY DESIGN

Detroit seamlessly integrates its engines, transmissions and axles for maximized fuel efficiency. The IDP combines with the Cascadia's aerodynamic improvements to produce the industry's next generation of fuel efficiency.

### THE INTEGRATED DETROIT® POWERTRAIN

When equipped with the IDP package, the Cascadia is even more fuel efficient. That's because the IDP is built on the proven foundation of efficiency and dependability that Detroit® engines have delivered for years. With the IDP, Detroit engineers took that history of performance and used advanced electronics to calibrate Detroit® DD13® and DD15® engines to deliver optimum horsepower and torque at lower RPMs, keeping your truck in top gear longer and cruising at a more efficient engine speed.

The tandem rear axles feature an optional Axle Lubrication Management (ALM) system that actively regulates the oil level at the ring gear and friction-loss optimized pinion bearings to reduce friction and parasitic loss, improving fuel efficiency.

The Detroit® DT12™ Automated Manual Transmission comes standard with the new Intelligent Powertrain Management System (IPM6). The additional features of IPM6 work seamlessly to optimize vehicle performance and boost your profitability.

### INTEGRATED DETROIT® POWERTRAIN:

- Detroit® DD13® or DD15® Engine
- Detroit® DT12™ Automated Manual Transmission (AMT)
- Intelligent Powertrain Management (IPM6)
- Axle Lubrication Management (ALM)



# THE PERFECT BLEND OF PERFORMANCE AND EFFICIENCY

Detroit has long been known for building efficient and dependable engines. Today, that reputation extends to their transmission and axles. When you spec the Cascadia with the Aero or AeroX package, and an IDP package that includes a downsized DD13<sup>®</sup> or DD15<sup>®</sup> engine, the DT12<sup>™</sup> Automated Manual Transmission with Intelligent Powertrain Management (IPM6) and Detroit<sup>®</sup> front and rear axles with Axle Lubrication Management (ALM), you get one of the most efficient trucks on the road.



DD15 Engine

## FEATURES OF IPM6

### ENGINE LOAD BALANCING

Engine holds constant torque to reduce unnecessary engine load.

### PREDICTIVE ADAPTIVE CRUISE CONTROL

Combines Predictive Cruise Control (PCC) and Adaptive Cruise Control (ACC) to better use kinetic energy and minimize brake usage.

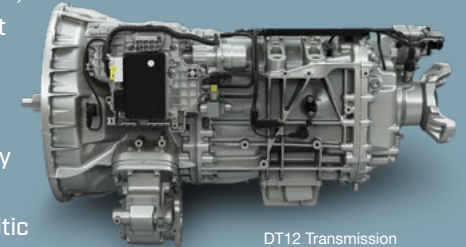
### IMPROVED MAP COVERAGE

Fully covers the top 10 U.S. interstate routes, covering 600,000 more road slope miles than the previous version and providing an increase in map coverage that will lead to more IPM use cases.

## DETROIT<sup>®</sup> DT12<sup>™</sup> AUTOMATED MANUAL TRANSMISSION

With millions of miles under its belt, the DT12 automated manual transmission has proven its performance all around the world. The DT12 product enhancements takes that performance and improves it, using technology to electronically select the best shift patterns to provide optimal power and fuel efficiency.

The DT12 also features optimized gearing for increased torque, improved low-speed maneuverability and improved down-speeding capability, a new oil pump and sump for better oil flow and reduced parasitic loss, and an optional side PTO.



DT12 Transmission

## INTEGRATED DETROIT<sup>®</sup> POWERTRAIN RATINGS

ENGINE	POWER	TORQUE	DISPLACEMENT
DETROIT <sup>®</sup> DD13 <sup>®</sup>	400 HP @ 1625 RPM	1750 lb.-ft. @ 975 RPM	781 cu. in. [12.8 L]
DETROIT <sup>®</sup> DD15 <sup>®</sup>	400 HP @ 1625 RPM 455 HP @ 1625 RPM	1750 lb.-ft. @ 975 RPM	906 cu. in. [14.8 L]

TRANSMISSION	CONFIGURATION	SPEEDS	INTELLIGENT POWERTRAIN MANAGEMENT
DETROIT <sup>®</sup> DT12 <sup>™</sup>	DIRECT DRIVE	12 FORWARD / 2 REVERSE	IPM6
	OVER DRIVE		

AXLES	CONFIGURATION	DIRECT DRIVE	OVER DRIVE
DETROIT <sup>®</sup> DRIVE AXLE	6x4	40,000 lb. tandem with Axle Lubrication Management	40,000 lb. tandem with Axle Lubrication Management
		2.16 rear axle ratio 2.28 rear axle ratio	2.64 rear axle ratio 2.85 rear axle ratio
	6x2	20,000 lb. single	20,000 lb. single
		20,000 lb. tag 2.28 rear axle ratio	20,000 lb. tag 2.85 rear axle ratio
	4x2	23,000 lb. single	23,000 lb. single
		2.28 rear axle ratio	2.85 rear axle ratio
DETROIT <sup>®</sup> STEER AXLE		12,000 lb., 12,500 lb., 13,300 lb.	12,000 lb., 12,500 lb., 13,300 lb.





SAFETY

# HELPING MAKE EVERY MILE SAFER

There's nothing more important than making sure those behind the wheel stay safe. It's why we designed the Cascadia to be one of the safest vehicles on the road, with features like sloped hoods, air disc brakes and ergonomic controls that help keep your hands on the wheel. It's also why the Cascadia comes standard with the Detroit Assurance® 5.0 suite of safety systems.

Safety systems and driver assistance systems do more than just keep people safe. By offering industry-leading collision mitigation, expensive repair costs as well as operational costs incurred when a truck is out of service can be significantly reduced. A safer truck means you keep your drivers and your equipment on the road and working.

## STANDARD FEATURES

### ACTIVE BRAKE ASSIST

Active Brake Assist 5.0 (ABA 5.0) is always on, detecting the distances to objects ahead in its path, calculating speed, and determining if a warning or braking action is necessary. In addition, ABA 5.0 features full braking on stationary and moving objects. The camera and radar signals are fused together for greater object recognition, which allows for enhanced braking capabilities.

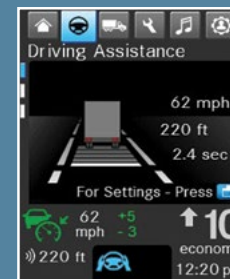
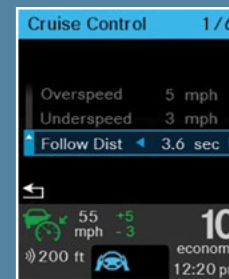
### FULL BRAKING ON MOVING PEDESTRIAN

When the signal from the radar and camera system detects a moving pedestrian who is about to cross the truck's path, an audible and visual warning occurs with simultaneous partial braking, followed by full braking if the driver does not react.



### ADAPTIVE CRUISE CONTROL (ACC) TO 0 MPH

ACC automatically adjusts your truck's cruising speed to maintain a safe following distance from other vehicles in its path, allowing the truck to remain in cruise control longer. ACC now also works in stop-and-go traffic. If the vehicle in front comes to a stop, the Cascadia will also come to a full stop—0 mph—and hold indefinitely. If the vehicle in front starts to move again and the truck has stopped for 2 seconds or less, then the truck will resume moving at a safe following distance. If the complete stop is longer than two seconds, then the driver must push the throttle or press set/resume.



2.4 Following Distance



3.6 Following Distance



## ADDITIONAL STANDARD FEATURES WITH DETROIT ASSURANCE 5.0



### TAILGATE WARNING

Independent of the ABA and ACC features, Tailgate Warning will activate according to a truck's speed and the following distance. If a driver remains at the following distances for 10 seconds or longer, a visual dash alert will be triggered:

- At speeds greater than 45 miles per hour, following within 2.7 seconds
- At speeds between 35 and 45 miles per hour, following between 1.8 and 2.7 seconds
- At speeds between 25 and 35 miles per hour, following at 1.8 seconds or less

Once activated, Tailgate Warning will deactivate only at speeds of less than 20 miles per hour. By remaining in any Tailgate Warning mode for 10 seconds or longer, the event will become reportable via the J1939 to the selected telematics system.

### AUTOMATIC WIPERS/HEADLAMPS

With the headlight switch in "auto" mode, the Rain/Light sensor detects low light and turns the headlights on. As visibility clears, the headlights automatically turn off. When the wiper controls are set to the "auto" position, the sensor automatically turns on the wipers when precipitation is detected and turns them off after it stops.

### INTELLIGENT HIGH BEAM

When the driver sets the headlight switch to auto high beam, the Detroit Assurance camera technology automatically switches to low beams when it detects the headlights or tail lights of another vehicle, as well as city lights. After the vehicle or city lights are out of sight, the high beams automatically come back on.

### TRAFFIC SIGN DISPLAY

The Detroit Assurance front-facing camera recognizes speed limit and other traffic signs, and then displays those signs in the instrument cluster. Traffic Sign Display has the capability to display up to two signs at the same time.





## ACTIVE LANE ASSIST (ALA)

### LANE DEPARTURE PROTECTION (LDP)

This optional feature auto-enables once speed exceeds 37 mph. The camera system detects the reflective paint and raised reflectors in lane markers. If the truck crosses those markers without the driver using a turn signal, a Lane Departure Warning (LDW), now standard with Detroit Assurance 5.0, will be issued first. An audible warning is sent through the corresponding speaker on the side of the truck that crosses the lane marker, along with a visual warning on the instrument panel. If the truck continues to veer out of its lane, it will be actively steered back into its lane.

### LANE KEEP ASSIST (LKA)

When Adaptive Cruise Control is enabled, Lane Keep Assist uses micro-steering movements to keep the Cascadia centered in its detected lane. Lane Keep Assist works at all speeds, but some road curves may be too sharp for this feature. The driver can disable it by turning the feature off. And with the lateral control provided by Lane Keep Assist in combination with Adaptive Cruise Control to 0 mph, Freightliner and Detroit are delivering the first production SAE Level 2 automated truck in North America.



## SIDE GUARD ASSIST (SGA)

SGA detects objects in the passenger-side blind spot for the entire length of the tractor and trailer. If the truck attempts to veer into an already-populated lane or attempts to make a right turn that would cause the truck to contact an object or person, an audible and visual warning will alert the driver.



## VIDEO CAPTURE WITH DETROIT ASSURANCE 5.0 CAMERA

The standard Detroit Assurance 5.0 HD camera with optional forward-facing video capture records video of the truck activity on the road to capture any severe traffic events.

In addition, the optional driver-facing camera can record video of the driver's actions during the same time period. In such an event, a total of 20 to 30 seconds of recording from before, during and after such an occurrence—along with other vehicle parameter data—is transmitted to the Bendix SafetyDirect® web portal for fleet operations and safety personnel to download and analyze.

Note: Requires a subscription to the Bendix SafetyDirect® web portal.

## ADDITIONAL SAFETY FEATURES

We not only made the Cascadia safer through leading-edge technology, we also did it with leading-edge engineering. From improved visibility to improved braking, the Cascadia delivers greater safety and greater profitability.

### HOOD, WINDSHIELD AND DOOR GLASS

The Cascadia features a sloped hood for better visibility and safety. It also comes standard with a roped-in, one-piece windshield and one-piece door glass. These one-piece designs offer:

- An asymmetric windshield construction with a thicker exterior glass panel for increased resistance to breakage
- An improved view of both the mirrors and road

### LED HEADLIGHTS

The Cascadia LED headlight system delivers industry-leading performance in the areas of light output and uptime. Moving to an industry-first full-LED system offers a number of advantages including:

- LED illumination in the low beam, high beam, daytime running lamp (DRL), park lamp and turn signal lamp
- An impressive field of view in nighttime and bad weather conditions due to exceptional bright white light
- The ability to distinguish objects in the road and adjacent to the road with much better contrast, helping to reduce eye strain
- Integrated DRL and park lamp
- Turn signals that alternate between the amber of the turn signal and the white of the DRL to boost awareness for other motorists

### HEATED MIRRORS

The Cascadia features standard heated door mirrors and optional heated hood mirrors. This allows for improved visibility and safety in bad weather.

### AIR DISC BRAKES

Meritor air disc brakes are now standard on all Cascadia trucks. Air disc brakes deliver shorter stopping distances with reduced brake fade, as well as the added benefits of reduced replacement costs and downtime.



126" BBC DAY CAB SHOWN WITH AERO PACKAGE





# MAXIMIZE UPTIME, INCREASE PROFITABILITY

## UPTIME

A truck that's down, even for routine maintenance, is unproductive and costly. When you're building your business and growing your bottom line, choose the truck that maximizes your uptime: the Cascadia.

With input from master technicians, Freightliner engineers designed components and systems to reduce critical vehicle failures and cut down repair time, getting your truck back on the road quickly and efficiently.

## CASCADIA MAINTENANCE SYSTEM

Maintenance intervals have often been determined by mileage. The Cascadia Maintenance System is an onboard monitoring system that computes optimal maintenance intervals based on the actual operating conditions of the vehicle. This system will help you optimize your maintenance intervals, which will reduce your total repair and maintenance costs as well as vehicle downtime.

## LIMITING TIME IN THE SHOP

Freightliner designed the Cascadia to be easier for technicians to repair, decreasing the amount of time your truck has to spend in the service bay. These time-saving advancements include:

- The eVault along with the fuse and relay box are both mounted in-cab for easy access and protection from the elements
- Easily removable dash panel for increased dash component accessibility
- Larger engine air filter for greater airflow and less frequent replacement intervals
- Easy-to-remove two-piece front bumper mounted behind the hood to minimize front impact damage
- Three-piece hood design for quick and easy individual panel replacement
- Full tilt hood with spring assist for easy engine access
- LED exterior and interior lighting for safety and reduced maintenance
- Optional Exterior Bulb Pre-Trip Inspection System to help confirm all lights are functioning correctly

## SERVICE NETWORK

When service is required, you'll find hundreds of service locations with Detroit® factory-certified technicians throughout North America, including numerous Freightliner dealership/parts and service locations. Most of those dealers are also Elite Support<sup>SM</sup> certified, ensuring a consistent high standard of service everywhere you go. All Elite Support dealers offer Express Assessment service, which is our commitment to delivering you a preliminary diagnosis within two hours of your arrival. Plus, our locations are all served by our extensive network of parts distribution centers, which means the parts you need are always nearby. Adding to that, you have multiple ServicePoint facilities, plus a 24/7, toll-free hotline, and you're never far from the help you need to get back on the road quickly.



Easy Access eVault



Two-Piece Front Bumper



LED Interior Lighting





DRIVER EXPERIENCE

# PRODUCTIVE DRIVERS MAKE BUSINESS PROFITABLE



SHOWN IN SLATE GREY WITH ELITE COCKPIT APPEARANCE PACKAGE  
SEE THE CASCADIA INTERIORS BROCHURE FOR MORE INFORMATION

## AN EVEN QUIETER RIDE

We recognize that drivers have a challenging job, so we do everything we can to make it easier. That includes a quieter ride. To improve the Cascadia's interior sound level, our engineers have incorporated noise-abatement technology including:

- An optional insulation package using 3M™ Thinsulate™ technology
- An engine mount design for better vibration isolation
- An engine tunnel cover constructed with Quiet Steel®\* technology
- A third door seal for an additional level of noise reduction

## DESIGNED FOR COMFORT AND FUNCTIONALITY

There's a lot more to driving than just driving. On the road, professional drivers can spend more than 100 hours in the cab over the course of an average week. The Cascadia was designed with the realities faced by professional drivers in mind; the interior is loaded with the creature comforts that make this a truck professional drivers want to drive and relax in.

From the dash to the instrument cluster, the Cascadia is designed for ease of operation and greater safety.

The ergonomically designed wraparound dash comes standard with switches that can be activated without leaning and stretching, as well as a steering wheel with integrated controls that allow drivers to keep their hands on the wheel while they work. Even the instrument cluster is designed with the driver in mind, featuring digital gauges and displays that relay information at a glance.

## RIDE AND HANDLING

The front suspension features longer mono-leaf springs and bushings that are tuned to provide a smoother ride and improved roll stiffness, meaning less roll and sway. The steering gear is located further forward, which leads to decreased bump steer and helps improve steering precision while reducing course corrections. All of this increases the smoothness of the ride and reduces driver fatigue.

\*Quiet Steel is a registered trademark of Material Sciences Corporation.

## DRIVER'S LOUNGE

The Cascadia features a number of design improvements to provide customizable living-space options on the road. Depending on the configuration, some of the features and updates you'll find include:

- Larger passenger-and driver-side storage cabinets
- A wardrobe cabinet with four inches of additional hanging length
- A larger microwave cabinet to accommodate standard appliances
- A larger refrigerator with matching cabinetry or a customer-supplied refrigerator option
- A flat-panel TV bracket that swivels and can support up to a 26" screen
- A traditional double-bunk option with an easily released telescoping ladder rated at 400 lbs.
- Optional driver's loft features a two-seat dinette/work table that can be folded flat to allow a full, Murphy-style bed
- Standard LED ambient lighting and dimmer switch on 72" raised roof models
- Multiple DC power outlets
- A variety of powerful inverter and inverter pre-wire options for AC-powered items
- Bunk storage lip to reduce likelihood of storage items moving while driving
- Enhanced HVAC with upper bunk vent for better climate control in bunk area
- New optional Dual HVAC system to provide up to 10 hours of cooling or 34 hours of heating when parked



SHOWN IN SADDLE TAN AND BLACK WITH ELITE LOUNGE PACKAGE AND DRIVER LOFT OPTION





CONNECTIVITY

# TRANSLATING DATA INTO INSIGHTS

On the Cascadia, Detroit Connect™ services are delivered via a proprietary connectivity platform. This platform enables you to perform remote updates and gain access to a richer amount of data.

**THE DETROIT CONNECT™ SUITE OF CONNECTED VEHICLE SERVICES IS YOUR TRUSTED SOURCE FOR INFORMATION ABOUT YOUR VEHICLE'S PERFORMANCE.** Having this information at your fingertips empowers you to make the right decisions for your business and reduce your Real Cost of Ownership for each Detroit-powered Cascadia in your fleet.



## DETROIT CONNECT HAS FOUR MAIN FEATURES:



**DETROIT CONNECT™ VIRTUAL TECHNICIAN<sup>SM</sup>** is the remote diagnostic system for Freightliner trucks equipped with Detroit® engines. With Detroit Connect™ Virtual Technician<sup>SM</sup>, fleets and owner-operators are notified within minutes when their vehicles experience fault events, the severity of the fault and when, where and how to best fix the issue causing the fault so that they can make informed service decisions. Critical fault codes are further analyzed by Detroit® Customer Support Center (CSC) experts. Complete fault event details can also be viewed via the Detroit Connect portal or mobile app.



**DETROIT CONNECT REMOTE UPDATES** gives fleets the ability to make over-the-air engine parameter updates and to receive Detroit-initiated engine and other powertrain electronic controller updates. Remote Updates improves customers' uptime by reducing the need to stop and physically connect the vehicle at a service center in order to make engine performance-enhancing updates.



**DETROIT CONNECT ANALYTICS** provides users with on-demand, automated fuel efficiency analysis and safety reporting with key insights developed by DTNA experts. Analytics uses that expertise to quickly identify behaviors, trends, root causes and key insights on fuel consumption and safety performance data across the fleet.



### **DETROIT CONNECT WIRELESS IN-CAB DEVICE CONNECTION**

The Detroit Connect platform links wirelessly with an in-cab device via Bluetooth, allowing hours of service (HOS) data to be delivered to Detroit Connect authorized Electronic Logging Device (ELD) apps. This provides the required vehicle information to meet the federal ELD regulations without the need for additional hardware.

These four services translate complicated vehicle performance data into actionable intelligence, putting the power of connectivity into the hands of the fleet. Cascadia trucks equipped with Detroit engines come standard with a five-year Detroit Connect service subscription, which includes Virtual Technician, Remote Updates and access to the Detroit Connect portal.

## POWERED BY THE DETROIT CONNECT PLATFORM

Fleets powered by the Detroit Connect™ Platform have direct access to critical information such as vehicle location, fault codes and diagnostics, fuel performance, safety data and driver behavior data. This platform is fully configurable and customizable, so customers can select which data sets they want to see and how frequently they would like that data made available and imported into their backend systems.



## TELEMATICS PARTNERS

Telematics fleet management solutions are available on the Cascadia from our preferred partners at Zonar. Zonar Systems has developed many proven products, including the Ground Traffic Control® (GTC) web-based fleet tracking portal and the Connect™ Android communications tablet. Ground Traffic Control and the Connect tablet can be integrated with the connectivity platform installed on all Cascadia trucks. Additionally, pre-wire options are available for other third-party telematics providers.











126" BBC 72" RAISED ROOF SHOWN WITH AERO AND BLACKOUT PACKAGE





QUALITY

# QUALITY AT THE CORE

## DESIGN

From the very beginning, Freightliner engineers considered how the Cascadia could provide customers the lowest Real Cost of Ownership. Designing for longer service life, fewer maintenance intervals, better fuel efficiency and improved ride quality were just a few of the goals. Additionally, Freightliner utilizes Process-Oriented Design to ensure that components can be installed in a factory environment with consistent high quality.

## TESTING

Validation testing has always been a critical and ongoing process with the Cascadia. We've built numerous prototypes to test new components and systems, simulating millions of road miles with cold chamber and hot room sessions to ensure effortless operation in below-zero conditions and temperatures above 100° F. We vigorously test our trucks every day to verify the performance of every new upgrade before it launches so that when you choose a Cascadia, you're getting the most advanced truck the industry has to offer.

## MANUFACTURING

Throughout the manufacturing process, methods are being deployed to ensure the highest quality levels. We use a Coordinate Measurement Machine, to ensure that our cab structure is manufactured to the tightest tolerances for cab squareness and hole alignment. All cab painting is performed with robotics to assure consistent paint finish. All dash modules are tested with electrical power and air pressure prior to cab installation to ensure everything is in working order.

Direct Current (DC) tools are used throughout the manufacturing process where proper torque is essential for nut-style fasteners. These DC tools allow for tracking historical torque values down to the individual truck. A new, more intensive water test is utilized that incorporates more high-pressure nozzles, replicating real-world water intrusion.

Last, a continuous improvement mindset ensures that the Cascadia will always have an ongoing focus on product quality and improvement. The Cascadia doesn't just challenge expectations; it redefines them, which translates to strong resale value down the road.



DESIGN



VALIDATION TESTING



REAL WORLD TESTING



**THE FUTURE OF TRUCKING IS HERE.  
IT'S THE CASCADIA.**



**126" BBC 72" RAISED ROOF SLEEPER CAB  
UNDERGOING AERODYNAMIC TESTING IN DTNA'S PROPRIETARY WIND TUNNEL**



# AERO & AEROX PACKAGES/CAB CONFIGURATIONS



126" BBC 72" RAISED ROOF SHOWN WITH AEROX



116" BBC DAY CAB



126" BBC DAY CAB



116"/126" BBC 48" MID ROOF XT



116"/126" BBC 60" MID ROOF XT



116"/126" BBC 72" MID ROOF XT



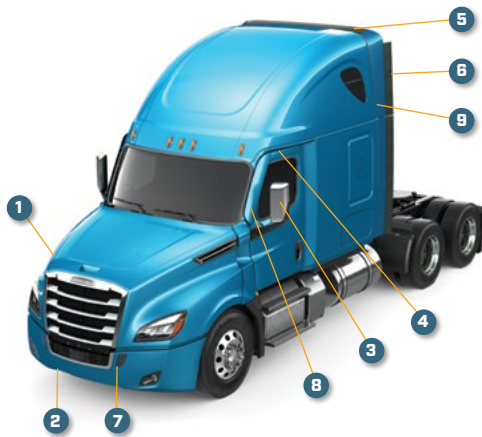
116"/126" BBC 60" RAISED ROOF



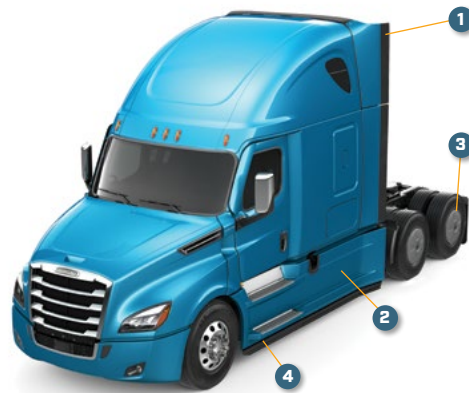
116"/126" BBC 72" RAISED ROOF

For detailed features and options, visit [Freightliner.com/Cascadia](http://Freightliner.com/Cascadia)

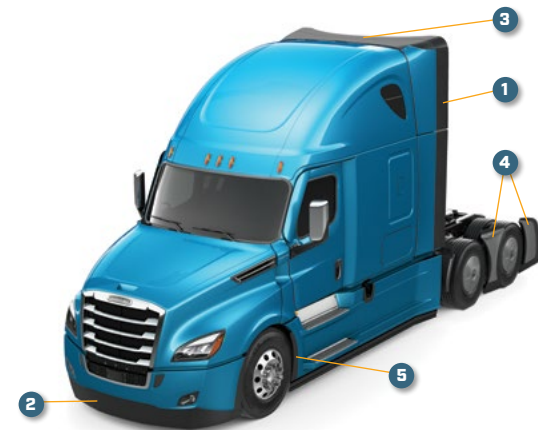
## STANDARD PACKAGE



## AERO PACKAGE



## AEROX PACKAGE



CASCADIA OFFERS TWO LEVELS OF ENHANCED AERODYNAMIC PACKAGES, THE AERO PACKAGE AND THE AEROX PACKAGE:

### STANDARD PACKAGE

- 1 HOOD AND GRILLE** Optimally sloped to reduce drag on the vehicle
- 2 BUMPER WITH INTEGRATED AIR DEFLECTOR** Reduces drag on the underbody components by redirecting high-velocity airflow underneath the vehicle
- 3 AERODYNAMIC DOOR MIRRORS & OPTIONAL HOOD-MOUNTED MIRRORS** Slices the wind to minimize drag
- 4 UPPER DOOR SEALS** Decreases drag and contributes to the cab's overall sound-dampening technology
- 5 INTEGRATED ANTENNAS** Replaces previous vertical, cab-mounted antennas, reducing aerodynamic drag on the sidewalls
- 6 12-INCH SIDE EXTENDERS** Directs airflow around the trailer\*\*
- 7 TOW HOOK COVERS** Improves aerodynamics by reducing the air entering the front of the vehicle
- 8 A-PILLAR DEFLECTOR** Aids in fuel efficiency by directing the wind, while also significantly reducing window soiling
- 9 SIDE EXTENDER SEALS** Improves aerodynamics and fuel efficiency by smoothing air flow from the cab to the side extenders\*

### AERO PACKAGE

AERO package includes standard package features plus:

- 1 20-INCH SIDE EXTENDERS** Directs airflow around the trailer\*\*
- 2 FULL CHASSIS FAIRINGS** With 4-inch ground clearance, the flexible side skirts work to limit inefficient airflow under the truck and smooths out transition of air from tractor to trailer
- 3 REAR WHEEL COVERS** Reduces air turbulence caused by the cavities in the rear tractor wheels, resulting in improved aerodynamics
- 4 ENHANCED CHASSIS FAIRING SKIRTS** Improves fuel efficiency by reducing under-the-vehicle drag

### AEROX PACKAGE

AEROX package includes the AERO features plus:

- 1 24-INCH SIDE EXTENDERS** Four inches longer than the side extenders in the Aero Package to direct airflow around the trailer more efficiently\*\*
- 2 OPTIMIZED LOW GROUND CLEARANCE BUMPER** Reduces ground clearance to 4 inches, improving vehicle aerodynamics and fuel efficiency by restricting air flow under the vehicle
- 3 OPTIMIZED ROOF FAIRING DEFLECTOR** Extends to the end of the 24" side extenders to smooth air flow between the tractor and trailer, helping increase fuel efficiency\*\*\*
- 4 OPTIMIZED DRIVE WHEEL FAIRINGS** Improves air flow between the tires and the side of the vehicle, contributing to improved aerodynamics and fuel efficiency
- 5 FRONT WHEEL WELL CLOSEOUTS** Flexible trim pieces reduce the space between the front tires and the vehicle for improved air flow, while contributing to greater fuel efficiency

OPTIONAL ON ALL PACKAGES

**AERODYNAMIC HEIGHT CONTROL (AHC)** Improves fuel efficiency at highway speeds by reducing the amount of drag from the air moving under the vehicle

**MICHELIN® X® LINE™ ENERGY D+ TIRES** Reduces rolling resistance in 6x4 applications to improve fuel economy

\* Sleeper only

\*\* Cascadia Day Cab with the Aero or AeroX package is equipped with 12" side extenders

\*\*\* Raised Roof Sleepers only





**CASCADIA**

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