

**HX™ SERIES**



THE ALL NEW  
INTERNATIONAL® HX™ SERIES.





Introducing the International® HX™ Series. Four tough new models, each engineered to outwork and outlast, hour after demanding hour. The HX Series is designed to endure the most punishing of jobsites, and to look great while doing it. Not to mention providing its driver a spacious, comfortable environment for work, day in and day out. Built to sustain whatever comes its way, and extensively tested to move you to the head of the class.



HX520

HX515

HX615

HX620



**HX515**

**Configuration:** Short Hood Set-Forward Axle

**Application:** Truck

**Engine:** Navistar® N13



## PUTTING UPTIME UP FRONT

The HX™ Series is purpose-built to deliver Uptime in every aspect of its productivity, efficiency, reliability and performance. OnCommand™ Connection comes standard, offering real time data for higher driver productivity and faster maintenance. Every component has been rigorously tested and proven to meet tough environments and tougher jobsites. And you're supported by unprecedented service available at nearly 700 International Dealer locations across the U.S. and Canada.

No matter how extreme the conditions, no matter how tough your job, the HX Series has what it takes to deliver.

- ▶ The industry's only dedicated aluminum cab for severe service applications is lightweight and features riveted and bonded lap seams
- ▶ Huck-bolted frame and crossmembers for superior clamping force over time
- ▶ Available, industry-leading 12.5" x 0.5" single frame rail delivers 3.5 million RBM
- ▶ All-new 3-piece Metton hood on the HX615 and HX620
- ▶ The optimized cab suspension provides a supremely comfortable and quiet ride
- ▶ Cummins® X15 engine with up to 600 HP and 2,050 lb-ft of torque for 120" BBC models and Navistar® N13 with up to 475 HP and 1,700 lb-ft of torque in 115" BBC models
- ▶ Available 150,000 lb. capacity center tow pin provides assured strength in extreme recovery scenarios



### HX620

**Configuration:** Long Hood Set-Back Axle  
**Application:** Truck or Tractor  
**Engine:** Cummins X15

**HX**  
INTERNATIONAL





# PRO STYLE



**HX620**

**Configuration:** Long Hood Set-Back Axle

**Application:** Truck or Tractor

**Engine:** Cummins X15

Now you can work hard and look good while doing it. The HX™ Series is designed to turn heads, convey strength and portray professionalism.

- ▶ All-metal grille with chromed steel surround and available bright grille bars
- ▶ Available stainless-clad aluminum bumper not only looks good but is more durable and reduces weight
- ▶ Available dual external chromed air cleaners provide HD filtration and easy serviceability
- ▶ Specify even greater style and functionality with available stainless visor, bug deflector, bright cab skirts and pedestal hood mirrors
- ▶ Halogen headlamps with LED daytime running lights and turn signals



▶ Bright mirrors with LED accents



▶ Available dual external air cleaners

▶ LED headlamps with DRL



▶ Available stainless steel visor



**DRIVER-FOCUSED PRODUCTIVITY**





Vehicle maneuverability and driver visibility are critical factors in vehicle productivity and jobsite safety. The HX™ Series has been designed with features engineered to provide superior maneuverability and unrivaled driver visibility.

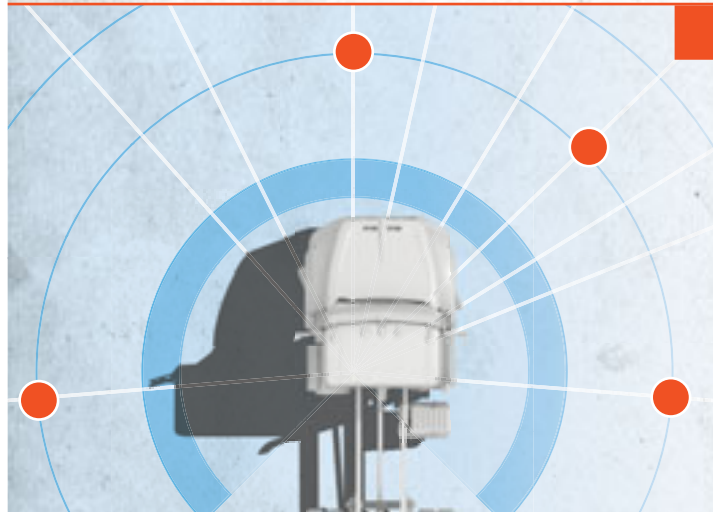
- ▶ New sloped hoods and large 1685 sq. in. windshield provide excellent sight lines
- ▶ Sculpted fenders provide improved wheel clearance
- ▶ Standard wide track front axles for greater wheel cut
- ▶ Innovative dual steering gear design for axles 16,000 lbs. and above

### OUTSTANDING VISIBILITY.

The HX Series offers excellent forward visibility thanks to a low-angled hood, contoured fenders, ample side glass and a large windshield available in either 1- or 2-piece design. The rear window includes 14% more glass than our previous model.

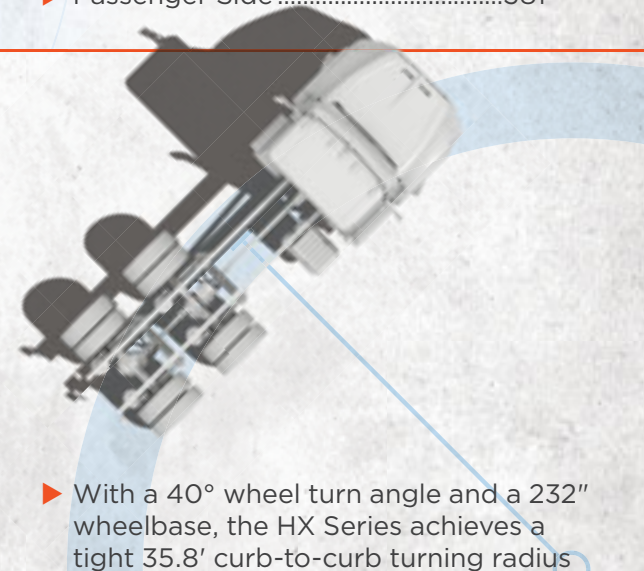
#### HX615 VISIBILITY

- ▶ Driver Side .....144"
- ▶ Forward, Straight Ahead..... 348"
- ▶ Forward, Across Hood .....382"
- ▶ Passenger Side .....381"



The HX Series can achieve up to a 40 degree wheel cut for both right-hand and left-hand turns when optimally equipped, thanks to an innovative dual steering gear design and standard wide-track front axles. You can maneuver through the jobsites more easily, increasing uptime and improving worker safety.

### OPTIMAL MANEUVERABILITY.



- ▶ With a 40° wheel turn angle and a 232" wheelbase, the HX Series achieves a tight 35.8' curb-to-curb turning radius

**HX615**  
Configuration: Short Hood Set-Back Axle  
Application: Truck or Tractor  
Engine: Navistar® N13





The HX™ Series modern cab interior is well appointed and designed to enhance driver endurance and productivity.

- ▶ Available with Diamond level trim featuring premium woodgrain dash and door panels with stitched HX Series logos on padded door panel inserts
- ▶ Standard air conditioning, power windows and power locks
- ▶ Angled center console places key controls at easy reach
- ▶ Cup holders and standard overhead console provides convenient access and secure storage
- ▶ Interior LED lighting provides superior visibility, safer operation and longer life than conventional lighting
- ▶ New rubber flooring offers just the right amount of grip to help prevent foot slippage while still being easy to clean



**GET YOUR HANDS ON  
A REAL DRIVER'S TRUCK**



- ▶ Available air disc brakes with 6-channel ABS, Traction Control and state-of-the-art Stability Control Systems ensure confidence and reduced stress under the harshest driving conditions
- ▶ Standard hydraulic clutch with manual transmissions requires only 33-35 lbs. of effort
- ▶ Standard tilt/telescoping steering column adjusts to accommodate any size driver
- ▶ Gauges are designed and positioned to deliver optimal visibility and vital information at a glance

## THE ART AND SCIENCE OF CAB ERGONOMICS

International Truck carefully measures drivers and their movements before designing a truck. What is learned helps designers optimize the positioning of controls and gauges, and determine the ideal location of steps and grab handles to ensure drivers are as comfortable getting into a truck as they are driving it.



**HX Series offers more interior room than many competitive trucks – something anybody who works hard for a living can appreciate**

Cab width at shoulders:	74.25"
Cab width at hips:	68.25"
Head room:	41"
Leg room:	23.75"
Belly room:	17.25"
Horizontal seat travel:	6"
Tilt wheel range:	28°



▶ Contoured door panels add hip room and storage space



▶ Intuitively positioned gauges





Horsepower [BHP @ RPM]	370 @ 1,700	390 @ 1,700	410 @ 1,700	430 @ 1,700	475 @ 1,700*
Torque [LB-FT @ RPM]	1,350 @ 1,000	1,450 @ 1,000	1,450 @ 1,000	1,550 @ 1,000	1,700 @ 1,000
Gov. Speed [RPM]	2,100	2,100	2,100	2,100	2,100
Clutch Engagement [LB-FT @ RPM]	770 @ 800	811 @ 800	828 @ 800	868 @ 800	959 @ 800

\*HX615 only

## NAVISTAR® N13

DEPENDABLE

POWER FOR

HX515 AND HX615

MODELS



The Navistar N13 is designed specifically for International brand vehicles. The 2,200 bar common rail fuel system delivers outstanding fuel economy. The compacted graphite iron crankcase enables significant weight savings. Multiple fuel injection events combined with the isolated oil pan deliver a quiet and smooth operator environment. The wide range of horsepower ratings from 370 to 475 HP ensures there is an N13 to suit your business needs.

Engine Type	Diesel, 4-Cycle
Configuration	Inline 6-Cylinder
Displacement	12.4 L (758 cu. in.)
Bore & Stroke	4.96 in. & 6.54 in. (126 mm & 166 mm)
Compression Ratio	17:1
Aspiration	Dual Stage Series Turbochargers, Intercooler & Aftercooler
Combustion System	Direct Injection
Engine Lubrication	42 Quarts (40 L)
Total Engine Weight (Dry)	2,422 lbs (1099 kg)
Valves	4 Valves Per Cylinder, Single Overhead Camshaft
B10 Design Life	1,200,000 mi (1,931,000 km)



<b>Horsepower [BHP @ RPM]</b>	450 @ 1,800	455 @ 1,800	500 @ 1,800	500 @ 1,800	550 @ 2,000	550 @ 2,000	600 @ 1,900
<b>Torque [LB-FT @ RPM]</b>	1,650 @ 1,000	1,650 @ 1,200	1,650 @ 1,200	1,850 @ 1,200	1,850 @ 1,200	2,050 @ 1,200	2,050 @ 1,200
<b>Gov. Speed [RPM]</b>	1,800	2,000	2,000	2,000	2,000	2,000	2,000
<b>Clutch Engagement [LB-FT @ RPM]</b>	1,000 @ 800	1,000 @ 800	1,000 @ 800	1,000 @ 800	1,000 @ 800	1,000 @ 800	1,000 @ 800

The Cummins X15 is one of the most popular heavy-duty engines in North America, for good reason. With horsepower ratings up to 600 HP and 2,050 lb-ft of torque, the X delivers relentless performance. This power comes with plenty of efficiency, too, thanks to an XPI fuel system that gets the most out of every drop of fuel. With a standard engine brake and the power your workload demands, the X15 has what it takes to get the job done.

## CUMMINS® X15

PROVEN MUSCLE



FOR HX520 AND

HX620 MODELS



Diesel, 4-Cycle
Inline 6-Cylinder
14.9 L (912 cu. in.)
5.39 in. & 6.65 in. (137mm & 169mm)
18.9:1
Variable Geometry Turbocharger
Direct Injection XPI Fuel System
56 Quarts (53 L)
3,186 lbs. (1,445 kg)
4 Valves per Cylinder, Single Overhead Camshaft
1,000,000 mi (1,609,000 km)

<b>Engine Type</b>
<b>Configuration</b>
<b>Displacement</b>
<b>Bore &amp; Stroke</b>
<b>Compression Ratio</b>
<b>Aspiration</b>
<b>Combustion System</b>
<b>Engine Lubrication</b>
<b>Total Engine Weight (Dry)</b>
<b>Valves</b>
<b>B50 Design Life</b>



# AVAILABLE CONFIGURATIONS

Spec your HX™ Series with either a set-forward or set-back front axle in either a short or long hood depending on the application. Applications range from bridge formula mixers or construction dumps to heavy haul tridem tractors or refuse roll-off chassis. Whether your job requires a truck to meet stringent bridge laws, haul 30,000 lbs. of backfill through a tight jobsite, or transport a 140,000 lb. wheel loader to a remote mining site, we can build the ideal HX Series truck or tractor to optimize your operation.

HX520	HX515	HX615	HX620
<p><b>120" BBC Set-Forward Axle Truck or Tractor</b></p> <p><b>Primary Vocations:</b></p> <ul style="list-style-type: none"> <li>▪ Heavy Haul Tractor</li> <li>▪ Construction Dump</li> <li>▪ Logging</li> <li>▪ Recovery</li> </ul> <p><b>Key Features:</b></p> <ul style="list-style-type: none"> <li>▪ Powerful 15L Cummins X power up to 600 HP / 2,050 lb.-ft. torque</li> <li>▪ Excellent bridge formula chassis</li> <li>▪ Available 0.5", 3.5 million RBM single rail frame</li> <li>▪ Available 150,000 lb. Tow Pin</li> <li>▪ Available dual external air cleaners for HD filtration</li> </ul>	<p><b>114" BBC Set-Forward Axle Straight Truck</b></p> <p><b>Primary Vocations:</b></p> <ul style="list-style-type: none"> <li>▪ Concrete Mixer</li> <li>▪ Construction Dump</li> <li>▪ Refuse/Roll-off</li> <li>▪ Crane</li> </ul> <p><b>Key Features:</b></p> <ul style="list-style-type: none"> <li>▪ Lightweight efficient N13 up to 430 HP / 1,550 lb.-ft. torque</li> <li>▪ Available 0.5", 3.5 million RBM single rail frame</li> <li>▪ Available transition plate at BOC for efficient mixer mounting</li> <li>▪ Available asymmetrical front spring packs for mixers or plows</li> <li>▪ Available FEPTO or REPTO with in-cab access hatch for convenient maintenance</li> <li>▪ Standard stationary grille</li> </ul>	<p><b>115" BBC Set-Back Axle Truck or Tractor</b></p> <p><b>Primary Vocations:</b></p> <ul style="list-style-type: none"> <li>▪ Construction Dump</li> <li>▪ Concrete Mixer</li> <li>▪ Platform Stake/Crane</li> <li>▪ Refuse/Roll-off</li> </ul> <p><b>Key Features:</b></p> <ul style="list-style-type: none"> <li>▪ Lightweight efficient N13 up to 475 HP / 1,700 lb.-ft. torque</li> <li>▪ Available 0.5", 3.5 million RBM single rail frame</li> <li>▪ Available asymmetrical front spring packs for mixers or plows</li> <li>▪ Available REPTO with in-cab access hatch for convenient maintenance</li> <li>▪ Available 150,000 lb. Tow Pin</li> </ul>	<p><b>119" BBC Set-Back Axle Truck or Tractor</b></p> <p><b>Primary Vocations:</b></p> <ul style="list-style-type: none"> <li>▪ Heavy Haul Tractor</li> <li>▪ Construction Dump</li> <li>▪ Platform Stake/Crane</li> </ul> <p><b>Key Features:</b></p> <ul style="list-style-type: none"> <li>▪ Powerful 15L Cummins X power up to 600 HP / 2,050 lb.-ft. torque</li> <li>▪ Available 0.5", 3.5 million RBM single rail frame</li> <li>▪ Available 150,000 lb. Tow Pin</li> <li>▪ Front axles up to 22K</li> <li>▪ Tandem rear axles up to 70K and Tridem to 69K</li> <li>▪ Available dual external air cleaners for HD filtration</li> </ul>



# HX SERIES SPECIFICATIONS

## GVWR

- ▶ 52,000 – 92,000 lbs.

## Models

- ▶ HX515 114" BBC, Set-Forward Front Axle Truck
- ▶ HX615 115" BBC, Set-Back Front Axle Truck or Tractor
- ▶ HX520 120" BBC, Set-Forward Front Axle Truck or Tractor
- ▶ HX620 119" BBC, Set-Back Front Axle Truck or Tractor

## Axle Configurations

- ▶ 6x4
- ▶ 8x6

## Heat Treated Alloy Steel 120,000 PSI Frames

- ▶ Single Rail
  - 3/8": 10.25"x3.61"x0.375": 2,037,600 RBM
  - 3/8": 12.25"x3.375"x0.375": 2,311,000 RBM
  - 1/2": 12.5"x3.750"x0.5": 3,536,400 RBM
- ▶ Double Rail
  - 5/16"+ 5/16": 10.875"x3.893x0.625": 3,580,800 RBM
  - 3/8"+ 5/16": 13.025"x3.687"x0.6875": 4,450,000 RBM

## Engines

- ▶ Navistar N13 13L
  - HX515 / HX615
  - 370 – 475 HP\*
  - 1,350 – 1,700 lb.-ft.\*

\*475 HP / 1700 lb.ft. rating HX615 only

- ▶ Cummins X15 15L
  - HX520 / HX620
  - 450 – 600 HP
  - 1,650 – 2050 lb.-ft.

## Transmissions

- ▶ Eaton Manual: 8LL, 9ALL, 10, 13, 15, 18-speed
- ▶ Eaton Automated: UltraShift®+ 8LL, 9ALL, 18-speed
- ▶ Allison Automatic: 4000 Series RDS, EVS, OFS

## Clutch

- ▶ Standard: Hydraulic with Air Assist

## Power Take Off

- ▶ Front Engine PTO (FEPTO) HX515
- ▶ Rear Engine PTO (REPTO) HX515 / HX615

## Front Axles (Wide Track)

- ▶ HX515 / HX520
  - Dana: 16,000 – 20,000 lbs.
  - Meritor: 12,000 – 20,000 lbs.
- ▶ HX615 / HX620 SBA
  - Dana: 16,000 – 22,000 lbs.
  - Meritor: 13,200 – 22,000 lbs.

## Front Suspensions

- ▶ HX515 / HX520 SFA
  - Multi-leaf: 20,000 lbs.
  - Parabolic Taper-leaf: 12,000 – 20,000 lbs.
- ▶ HX615 / HX620 SBA
  - Multi-leaf: 14,000 – 23,000 lbs.
  - Parabolic Taper-leaf: 12,000 – 20,000 lbs.
  - Slipper- Type: 20,000 – 24,000 lbs.

## Rear Axles

- ▶ Tandem Rear Axles
  - Dana: 40,000 – 46,000 lbs. Single and Two Speed
  - Meritor: 40,000 – 70,000 lbs. Single and Double Reduction
- ▶ Tridem Rear Axles
  - Meritor: 53,000 lbs.

## Rear Suspensions

- ▶ Spring Suspensions
  - Chalmers: 40,000 – 52,000 lbs.
  - Hendrickson HMX: 40,000 – 46,000 lbs
  - Hendrickson R, RS, RT: 46,000 – 80,000 lbs.
- ▶ Air Suspensions
  - Hendrickson HAS: 40,000 – 46,000 lbs. 55" and 60" spacing
  - Hendrickson PRIMAAAX®: 46,000 – 52,000 lbs. 55", 60", 72" spacing
  - Hendrickson PAX Tridem: 69,000 lbs.

## UPFITTING THAT WORKS FOR YOU

The HX Series includes a point-to-point electrical system that's designed to deliver confident performance combined with easy operation and adaptability for future modifications. The HX Series electrical system includes body controllers which will enable the future usage of remote power modules.

Features include:

- ▶ Factory installation of up to 12 body integration switches
- ▶ Seamless body and chassis integration for unmatched dependability

## INTERNATIONAL TRUCK SPECIALTY

**CENTERS** provide a quick, efficient and cost-effective upfitting solution. Count on:

- ▶ Quality modifications covered under manufacturer's warranty
- ▶ Upfit process supervised by International engineers to ensure factory production-level quality
- ▶ Expertise to identify and resolve problems quickly
- ▶ A quick and efficient process ensured by optimized delivery cycle times and comprehensive factory support



## FASTER ROUTINE MAINTENANCE FOR GREATER UPTIME



- ▶ Lightweight, well-balanced 3-piece hood opens easily and at as little as 31.5 lbs. of effort, is much easier to open than many competitive designs
- ▶ Convenient driver-side access under the hood for most inspection points
- ▶ Synchronized service intervals for more efficient servicing
- ▶ Translucent containers enable fluid level check at a glance
- ▶ Components such as 3-piece hood, 1-piece grille and break-away mirrors are designed to be easily replaceable to minimize downtime

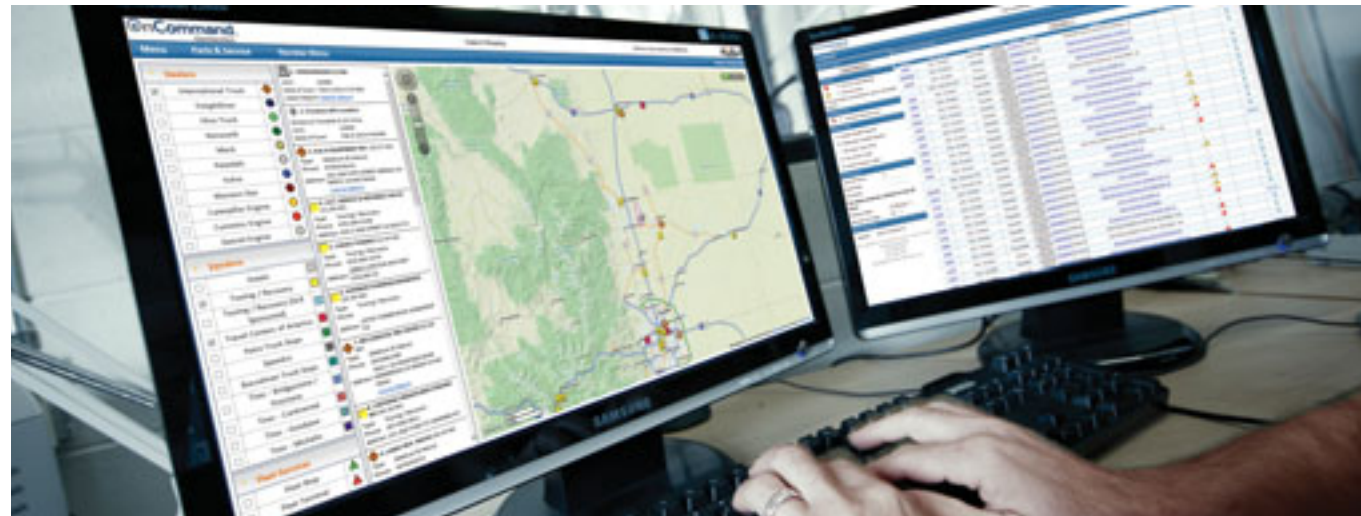


# OnCommand<sup>®</sup> Connection

REMOTE DIAGNOSTICS FOR ALL MAKES OF VEHICLES.



Use OnCommand Connection to proactively identify potential problems, improve vehicle uptime, control maintenance and lower repair costs.



## PUT ONCOMMAND<sup>®</sup> CONNECTION TO WORK FOR YOUR FLEET

With an open architecture technology that works with your telematics provider, as well as one portal to manage all your vehicles, OnCommand Connection makes powerful remote diagnostics accessible to everyone.

OnCommand Connection uses real-time data to make fleet management more efficient.



**Reduce** en route events by proactively scheduling maintenance and repairs



**Map** tools that plot truck locations, nearest dealers, hotels and local towing providers



**Generate** real-time comprehensive vehicle health reports



**Understand** fault codes quickly and easily with descriptions in plain English



**Gain** more insight with fault code action plans that provide severity information and recommend solutions

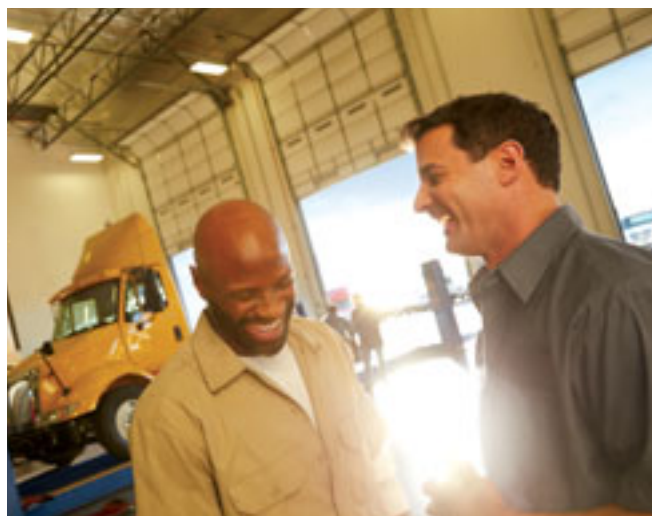


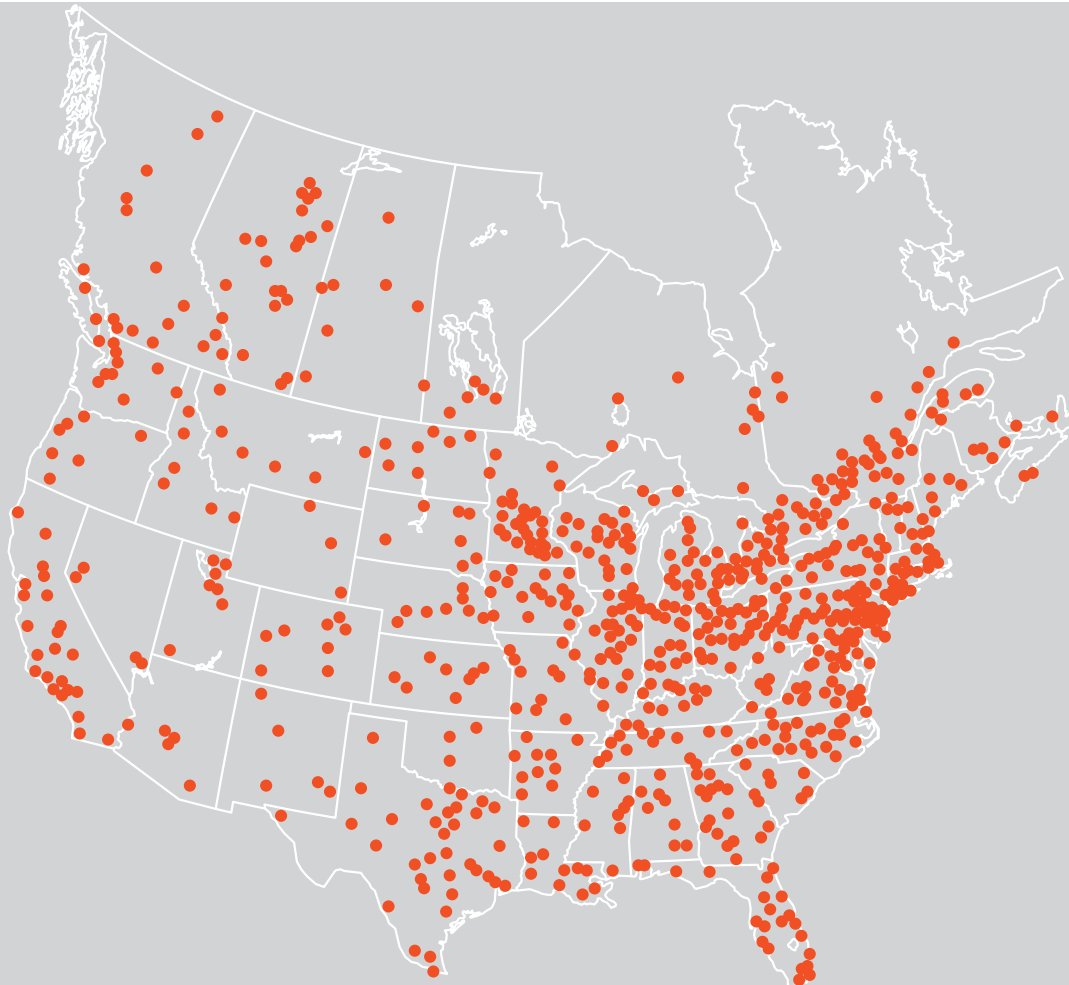
## **NAVISTAR<sup>®</sup>** **CAPITAL** a BMO Financial Group program

Backed by over 40 years of experience, Navistar Capital is an industry leader in commercial vehicle financing. We provide customized leases and secured loans with flexible structuring for International heavy and medium duty commercial vehicles. Contact your local International dealer for more information.

## **FLEETRITE<sup>®</sup>**

For more than 40 years Fleetrite has provided quality parts for all truck and bus makes sold exclusively at your International Truck dealer. Every part is Navistar quality approved and is covered under a 1-year parts and labor warranty. Parts you can trust and affordability you can bank on.





## UNRIVALED SUPPORT

WE HAVE YOUR BACK SO YOU CAN KEEP MOVING FORWARD

Your International Dealer is one of the best in the business, and a strong link in the industry's broadest, most capable parts distribution and dealer network

### SUPPORT INCLUDES:

- ▶ Over 700 service locations, 8,400 Service Technicians, over 7,500 service bays, 230 body shops and 195 DPF cleaners
- ▶ The assurance of 24/7 parts availability through 8 expansive parts distribution facilities located throughout North America
- ▶ One of the industry's most comprehensive suites of extended warranty options
- ▶ Extended parts and service hours - ask us for hours and details
- ▶ 24/7 toll-free access to the Emergency Breakdown Control Center



**Note:** The information and conclusions contained herein are believed to be correct at time of publication, but do not necessarily apply to similar vehicles with different specifications or with production dates after the production of this publication. Vehicles with different specifications or later dates of production may yield different results. Vehicle specifications are subject to change without notice. TAD16008 01/2017 ©2017 NAVISTAR Inc. All rights reserved. All marks are trademarks of their respective owners.