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Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

**State of West Virginia  
 Solicitation Response**

**Proc Folder:** 1513032  
**Solicitation Description:** Passenger Type Van Transit Vehicle  
**Proc Type:** Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2025-02-06 13:30	SR 0810 ESR02042500000004762	1

**VENDOR**  
 000000109546  
 WESTERN RESERVE COACH SALES INC

**Solicitation Number:** CRFQ 0810 DMT2500000003  
**Total Bid:** 330497856      **Response Date:** 2025-02-06      **Response Time:** 11:52:01

**Comments:** All vehicles requested are 2025 Model Year.  
 AngelTrax Vulcan Series installed by dealer included in pricing  
 Ford Premium Care 6yr/100k extended warranty included in pricing  
 10 Passenger Floorplan bid as RWD chassis per spec; AWD option available at \$95,853 unit price; no lift per spec  
 130" wheelbase NO BID as this wheelbase is only offered by Ford as a cargo van and does not have side and rear  
 airbags  
 Graphics package no bid as not enough sufficient information provided; estimated cost \$2,500 per unit available to be  
 performed by dealer.  
 All safety options requested with the XLT package included in pricing as requested per addendums.  
 330.935.0844

**FOR INFORMATION CONTACT THE BUYER**  
 John W Estep  
 304-558-2566  
 john.w.estep@wv.gov

Vendor  
Signature X

FEIN#

DATE

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Passenger Type Van Transit Vehicle	69.00000	EA	4789824.000000	330497856.00

Comm Code	Manufacturer	Specification	Model #
25101502			

**Commodity Line Comments:** All vehicles requested are 2025 Model Year.  
AngelTrax Vulcan Series installed by dealer included in pricing  
Ford Premium Care 6yr/100k extended warranty included in pricing  
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Graphics package no bid as not enough sufficient information provided; estimated cost \$2,500 per unit available to be performed by dealer.  
All safety options requested with the XLT package included in pricing as requested per addendums.  
330.935.0844

**Extended Description:**

To establish an open ended contract for Passenger Type Van Transit Vehicle. The vehicles will be utilized to assist public transportation throughout the state for the 5310 and 5311 programs. The will be used in urban, sub-urban, and rural areas that includes hilly terrains and varying weather climates. These climates and road conditions require vehicles that possess stop-start duty cycles and enough mechanical specifications to safely travel throughout urban, suburban, and rural areas.  
Federal Terms and Conditions Apply

# 2025 Model Year **Ford Warranty Guide**

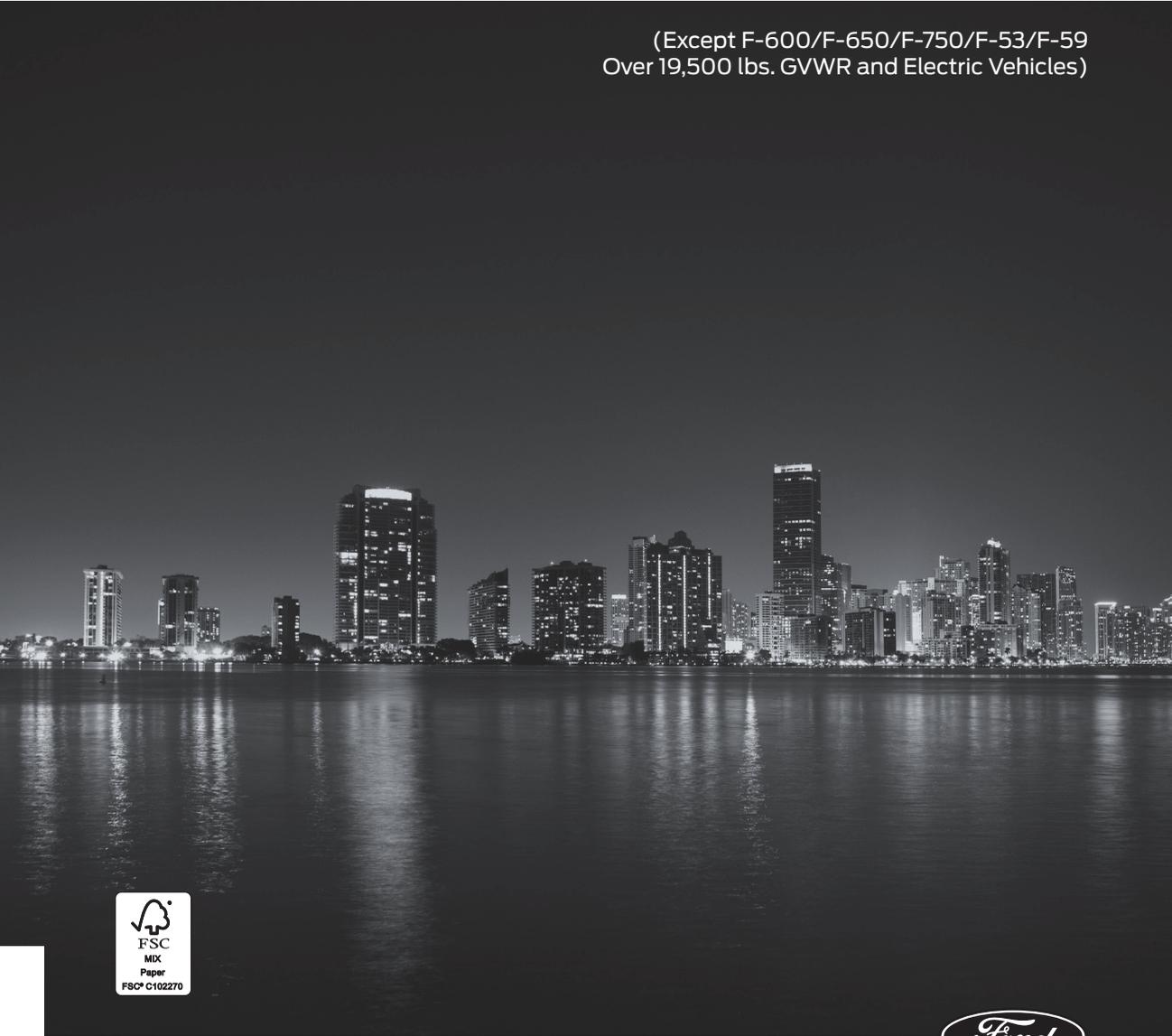
(Except F-600/F-650/F-750/F-53/F-59  
Over 19,500 lbs. GVWR and Electric Vehicles)



owner.ford.com



ford.ca



December 2024  
Fourth Printing  
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SW7J19T201 AD



This booklet explains the New Vehicle Limited Warranty coverages that apply to your Ford vehicle. Your satisfaction is our goal. If you are not satisfied with Ford's performance under the warranty, Ford participates in an informal warranty dispute settlement mechanism through the Better Business Bureau, which you can contact as follows: BBB AUTOLINE  
1676 International Drive, Suite 550, McLean, VA 22102.

You may use the BBB Autoline without charge. An application is available from BBB (800-955-5100) or Ford (800-392-3673).

You must resort to the BBB Autoline mechanism before exercising rights or seeking remedies created by the Magnuson-Moss Warranty Act. If you choose to seek redress by pursuing rights and remedies not created by the Magnuson-Moss Warranty Act, resort to the BBB Autoline Mechanism is not required by any provision of the Magnuson-Moss Warranty Act. Your state may require that you first resort to the BBB Autoline before exercising rights or seeking remedies created by your state's laws.

Further information on the BBB Autoline can be found on page 65.

**ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED, TO THE EXTENT ALLOWED BY LAW, TO THE DURATION OF THE NEW VEHICLE LIMITED WARRANTY BUMPER TO BUMPER COVERAGE.** Further information on implied warranties can be found on page 6.

**ANY PUNITIVE, EXEMPLARY, INCIDENTAL, CONSEQUENTIAL OR ANY OTHER DAMAGES CAUSED BY DELAY, OR LOSS OF USE MAY NOT BE RECOVERED AND ARE DISCLAIMED AND EXCLUDED UNLESS APPLICABLE LAW PROHIBITS THEIR DISCLAIMER OR EXCLUSION.** Further information on the disclaimers and exclusions can be found on page 6.



Your satisfaction is our #1 goal. If you have any questions or concerns, or are unsatisfied with the service you are receiving, follow these steps:

1. Contact your Sales Representative or Service Advisor at your selling/servicing dealership.
2. If your inquiry or concern remains unresolved, contact the Sales Manager, Service Manager or Customer Relations Manager.
3. If you require assistance or clarification on Ford Motor Company policies or procedures, please contact the Ford Customer Relationship Center.

In the United States	In Canada
<p>Ford Motor Company Customer Relationship Center P.O. Box 6248 Dearborn, MI 48121 1-800-392-3673 (FORD) For the hearing- or speech-impaired: Please contact the Telecommunication Relay Service by dialing 711 <a href="http://www.owner.ford.com">www.owner.ford.com</a></p>	<p>Customer Relationship Centre Ford Motor Company of Canada, Limited P.O. Box 2000 Oakville, Ontario L6J 5E4 1-800-565-3673 (FORD) For the hearing- or speech-impaired: Please contact the Telecommunication Relay Service by dialing 711 M-F 8:30 AM - 8:00 PM (ET) <a href="http://www.ford.ca">www.ford.ca</a></p>
In Asia-Pacific Region, Sub-Saharan Africa, U.S. Virgin Islands, Central America, the Caribbean, and Israel:	In Puerto Rico
<p>Ford Motor Company Ford Export Operations Attention: Customer Relations 1555 Fairlane Drive Fairlane Business Park #3 Allen Park, MI 48101 Telephone: (313) 594-4857 For customers in Guam, the Commonwealth of the Northern Mariana Islands (CNMI), America Samoa, and the U.S. Virgin Islands, please feel free to call our Toll-Free Number: (800) 841-FORD (3673) Fax: (313) 390-0804 E-mail: <a href="mailto:expcac@ford.com">expcac@ford.com</a></p>	<p>Ford International Business Development, Inc. P.O. Box 11957 Caparra Heights Station San Juan, PR 00922-1957 Telephone: (800) 841-FORD (3673) Fax: (313) 390-0804 E-mail: <a href="mailto:prcac@ford.com">prcac@ford.com</a> <a href="http://www.ford.com.pr">www.ford.com.pr</a></p>
In Middle East	
<p>Customer Relationship Center P.O. Box 21470 Dubai, United Arab Emirates Telephone: 971-4-3326084 Toll-free Number for the Kingdom of Saudi Arabia: 800 8971409 Local Telephone Number for Kuwait: 24810575 Fax: 971-4-3327299 E-mail: <a href="mailto:menacac@ford.com">menacac@ford.com</a> <a href="http://www.me.ford.com">www.me.ford.com</a></p>	

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## 1. Introduction

Ford Motor Company and your selling dealer thank you for selecting one of our quality products. Our commitment to you and your vehicle begins with quality protection and service.

When you need warranty repairs, your selling dealer would like you to return to it for that service, but you may also take your vehicle to another Ford Motor Company dealership authorized for warranty repairs. Certain warranty repairs require special training though, so not all dealers are authorized to perform all warranty repairs. That means that, depending on the warranty repair needed, the vehicle may need to be taken to another dealer. If a particular dealership cannot assist you, then contact the Customer Relationship Center at 1-800-392-3673.

This booklet explains in detail the warranty coverages that apply to your 2025-model car or light truck. If you bought a previously owned 2025-model vehicle, you are eligible for any remaining warranty coverages.

Ford Motor Company provides the **Emissions Defect Warranties** and **Emissions Performance Warranties** which cover your emissions control systems, and **Noise Emissions Warranty** which applies only to medium/heavy duty trucks over 10,000 pounds Gross Vehicle Weight Rating (pages 24-63).

## 2. Important information you should know

### IF YOU NEED CUSTOMER ASSISTANCE

Your Ford Motor Company dealer is available to assist you with all your automotive needs. Please follow the procedures outlined on the front page of this booklet.

In addition, if you are an eligible U.S. owner, you may use - at no cost - the services of the BBB AUTO LINE program. For details, see Better Business Bureau (BBB) AUTO LINE program, page 65 or call 1-800-955-5100.

### KNOW WHEN YOUR WARRANTY BEGINS

Your Warranty Start Date is the day you take delivery of your new vehicle or the day it is first put into service (for example, as a dealer demonstrator), whichever occurs first.

**NOTE:** For new retail sales on or after July 1st, 2023 sold from a California retailer and/or to a California resident, the Warranty Start Date and mileage will start no earlier than when the goods are delivered to the customer.

### CHECK YOUR VEHICLE

We try to check vehicles carefully at the assembly plant and the dealership, and we usually correct any damage to paint, sheet metal, upholstery, or other appearance items. But occasionally something may slip past us, and a customer may find that a vehicle was damaged before he or she took delivery. If you see any damage when you receive your vehicle, notify your dealership within one week.

### MAINTAIN YOUR VEHICLE PROPERLY

Your glove compartment contains an **Owner's Manual** which indicates the scheduled maintenance required for your vehicle. Proper maintenance guards against major repair expenses resulting from neglect or inadequate maintenance, may help

increase the value you receive when you sell or trade your vehicle, and is important in allowing your vehicle to comply with applicable emissions standards.

It is your responsibility to make sure that all of the scheduled maintenance is performed and that the materials used meet Ford engineering specifications. Failure to perform scheduled maintenance as specified in the Owner's Manual will invalidate warranty coverage on parts affected by the lack of maintenance. Make sure that receipts for completed maintenance work are retained with the vehicle.

Your Ford or Lincoln dealership, or Ford or Lincoln Quality Care Service Center, has factory-trained technicians who can perform the required maintenance using genuine Ford parts. The dealership looks forward to meeting your every service need to maximize your satisfaction with your vehicle.

#### **WHO PAYS FOR WARRANTY REPAIRS?**

You will not be charged for repairs covered by any applicable warranty during the stated coverage periods, unless specifically stated elsewhere in this guide.

Some states have mandated alternate time coverage periods for parts of your vehicle (e.g. seatbelts).

Some states and/or local governments may require a tax on a portion of warranty repairs. Where applicable law allows, the tax must be paid by you, the owner of the vehicle.

During the Bumper to Bumper Warranty period, dealers may receive instructions to provide no-cost, service-type improvements - not originally included in your Owner's Manual -intended to increase your overall satisfaction with your vehicle.

Sometimes Ford may offer a special adjustment program to pay all or part of the cost of certain repairs beyond the terms of the applicable warranty. Check with your dealer or call 1-800-392-3673 to learn whether any adjustment program is applicable to your vehicle. Please have your vehicle identification number available.

## DO WARRANTIES APPLY IN OTHER COUNTRIES?

### Warranty Service Outside of the United States, U.S. Territories or Canada

#### A. In a Foreign Country Outside of the United States, U.S. Territories or Canada

If you are traveling in a foreign country outside of the United States, U.S. Territories or Canada and your vehicle remains registered in the United States, your Ford Warranty still applies if your vehicle model is sold or serviceable by an authorized Ford Distributor/Dealer in the country in which you are traveling:

- Service may be requested at any authorized Ford dealership.
- It may be necessary for the vehicle owner to pay the servicing dealer and then present the paid repair order/invoice along with the vehicle to a United States/Canada Ford dealer for a refund under the United States/Canada warranty.
- Reimbursement will not be considered if the vehicle does not return to the United States/Canada.

#### B. If you move outside of the United States, U.S. Territories, or Canada to another country you must contact the local Ford Customer Relations Center (CRC) to verify if your vehicle model is sold or serviceable in the destination country.

- If your vehicle model is sold or serviceable by an authorized Ford Distributor/Dealer in the destination country, you will continue to have warranty coverage that may be less than or equal to the original country's coverage.
- If your vehicle model is not sold or serviceable by an authorized Ford Distributor/Dealer in the destination country, you will not receive warranty service.
- You should contact the Customs department of the destination country before you move. Vehicle importation rules vary considerably from country to country.

## Notes to A&B:

- Repairs due to the use of improper or dirty fuels and lubricants are not covered by the manufacturer's warranty.
- Vehicles shipped out of the United States, U.S. Territories or Canada to foreign countries specifically for the purpose of resale in that foreign country are not covered.
- The United States warranty does not apply if a vehicle is purchased from an authorized dealer in the United States or U.S. Territories, and the vehicle is not registered/licensed/titled in the United States, U.S. Territories or Canada.
- Vehicles that were originally purchased through the Ford Export Operations Military Sales Program will continue to have the United States coverage as long as the vehicle is serviceable in the destination country.
- Serviceability and destination warranty coverage is at the sole discretion of Ford Motor Company.

Please refer to owner's manual under customer assistance if you have any questions or go to [www.Ford.com](http://www.Ford.com).

You should contact the U.S. CRC to verify destination country warranty and serviceability.

### 3. The New Vehicle Limited Warranty for your 2025-model vehicle

#### LIMITATIONS AND DISCLAIMERS

All of the warranties in this booklet are subject to the following limitations and disclaimers:

The warranties in this booklet are the only express warranties applicable to your vehicle. Ford does not assume or authorize anyone to assume for it any other obligation or liability in connection with your vehicle or these warranties. No person, including Ford employees or dealers, may modify or waive any part of these warranties.

Ford and its dealers reserve the right to make changes in or additions to vehicles built or sold by them at any time without incurring any obligation to make the same or similar changes or additions to vehicles previously built or sold.

Ford and its dealers also reserve the right to provide post-warranty repairs, conduct recalls, or extend the warranty coverage period for certain vehicles or vehicle populations, at the sole discretion of Ford. The fact that Ford has provided such measures to a particular vehicle or vehicle population in no way obligates Ford to provide similar accommodations to other owners of similar vehicles.

As a condition of these warranties, you are responsible for properly using, maintaining, and caring for your vehicle as outlined in your Owner's Manual. Ford recommends that you maintain copies of all maintenance records and receipts for review by Ford.

Ford and your dealer are not responsible for any time or income that you lose, any inconvenience you might be caused, the loss of your transportation or use of your vehicle, the cost of rental vehicles, fuel, telephone, travel, meals, or lodging, the loss of personal or commercial property, the loss of revenue, or for any other incidental or consequential damages you may have.

Punitive, exemplary, or multiple damages may not be recovered unless applicable law prohibits their disclaimer.

You may not bring any warranty-related claim as a class representative, a private attorney general, a member of a class of claimants or in any other representative capacity.

Ford shall not be liable for any damages caused by delay in delivery or furnishing of any products and/or services.

You may have some implied warranties. For example, you may have an implied warranty of merchantability (that the car or light truck is reasonably fit for the general purpose for which it was sold) or an implied warranty of fitness for a particular purpose (that the car or light truck is suitable for your special purposes), if a special purpose was specifically disclosed to Ford itself not merely to the dealer before your purchase, and Ford itself not just the dealer told you the vehicle would be suitable for that purpose.

These implied warranties are limited, to the extent allowed by law, to the time period covered by the written warranties, or to the applicable time period provided by state law, whichever period is shorter.

**DISCLAIMER OF IMPLIED WARRANTIES FOR BUSINESS AND RACING USE**

**\*\*\* Ford disclaims all implied warranties if the vehicle is used for business or commercial purposes. \*\*\***

**\*\*\* Ford disclaims the implied warranty of fitness for a particular purpose if your vehicle is used for racing, even if the vehicle is equipped for racing. \*\*\***

The warranties contained in this booklet and all questions regarding their enforceability and interpretation are governed by the law of the state in which you purchased your Ford vehicle. Some states do not allow Ford to limit how long an implied warranty lasts or to exclude or limit incidental or consequential damages, so the limitation and exclusions described above may not apply to you.

**APPLICABILITY OF LIMITATIONS OF IMPLIED WARRANTY TO NEW VEHICLE LIMITED WARRANTY AND EMISSIONS WARRANTY**

**\*\*\* This information about the limitation of implied warranties and the exclusion of incidental and consequential damages under the NEW VEHICLE LIMITED WARRANTY also applies to the EMISSIONS WARRANTIES described on pages 24-63. \*\*\***

Ford participates in the BBB AUTO LINE warranty dispute resolution program. You may contact BBB AUTO LINE by calling 800-955-5100.

You are required to submit your warranty dispute to the BBB AUTO LINE before exercising rights or seeking remedies under the Federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. To the extent permitted by the applicable state “Lemon Law”, you are also required to submit your warranty dispute to the BBB AUTO LINE before exercising any rights or seeking remedies under the “Lemon Law”.

If you choose to seek remedies that are not created by the Magnuson-Moss Warranty Act or the applicable state “Lemon Law,” you are not required to first use BBB AUTO LINE to resolve your dispute – although the program is still available to you.

For more information regarding the BBB AUTO LINE program, see page 65 of this booklet.

## QUICK REFERENCE: WARRANTY COVERAGE

This chart gives a general summary of your warranty coverage provided by Ford Motor Company under the New Vehicle Limited Warranty. Please refer to the description of warranty coverage for more specific information.

For each type of coverage, the chart shows two measures:

- years in service
- miles driven

**Your New Vehicle Limited Warranty**

TYPE OF COVERAGE	YEARS IN SERVICE/MILES DRIVEN
BUMPER TO BUMPER	3/36,000
POWERTRAIN	5/60,000
SAFETY RESTRAINT SYSTEM	5/60,000
CORROSION (Perforation only)	5/UNLIMITED
DIESEL ENGINE	5/100,000
HYBRID/ELECTRIC UNIQUE COMPONENT	8/100,000

The measure that occurs first determines how long your coverage lasts. For example: Your Bumper to Bumper Coverage lasts for three years - unless you drive more than 36,000 miles before three years elapse. In that case, your coverage ends at 36,000 miles.

For more details on coverage, see:

- What is Covered? (pages 10-16)
- What is Not Covered? (pages 16-21)

## WHAT IS COVERED?

Your NEW VEHICLE LIMITED WARRANTY gives you specific legal rights. You may have other rights that vary from state to state. Under your New Vehicle Limited Warranty if:

- your Ford vehicle is properly operated and maintained, and
- was taken to a Ford dealership for a warranted repair during the warranty period,

then authorized Ford Motor Company dealers will, without charge, repair, replace, or adjust all parts on your vehicle that malfunction or fail during normal use during the applicable coverage period due to a manufacturing defect in factory-supplied materials or factory workmanship.

This warranty does not mean that each Ford vehicle is defect free. Defects may be unintentionally introduced into vehicles during the design and manufacturing processes and such defects could result in the need for repairs. Ford provides the New Vehicle Limited Warranty only to remedy manufacturing defects that result in vehicle part malfunction or failure during the warranty period.

The remedy under this written warranty, and any implied warranty, is limited to repair, replacement, or adjustment of defective parts. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Ford, through its authorized dealers, is willing and able to repair, replace, or adjust defective parts in the prescribed manner. Ford's liability, if any, shall in no event exceed the cost of correcting manufacturing defects as herein provided and upon expiration of this warranty, any such liability shall terminate.

Conditions that are not covered by the New Vehicle Limited Warranty are described on pages 16-21. When making warranty repairs on your vehicle, the dealer will use Ford or Motorcraft parts or remanufactured or other parts that are authorized by Ford, at the discretion of Ford or the Ford dealership.

Nothing in this warranty should be construed as requiring defective parts to be replaced with parts of a different type or design than the original part, so long as the vehicle functions properly with the replacement part. Moreover, Ford and its authorized dealers are entitled to a reasonable time and a reasonable number of attempts within which to diagnose and repair any defect covered by this warranty.

In certain instances, Ford may authorize repairs at other than Ford dealer facilities.

One or more separate warranties apply to tires on your new vehicle. The New Vehicle Limited Warranty covers tire defects in factory supplied material or workmanship for 100% of labor costs and on a prorated adjustment basis for parts. (See the reimbursement schedule below).

For vehicles within the New Vehicle Limited Warranty time in service and mileage coverage period, defective tires will be replaced on a prorated adjustment basis according to the following mileage-based Reimbursement Schedule:

MILES DRIVEN	PERCENT OF PARTS COVERED BY FORD
1-12,000	100%
12,001-24,000	60%
24,001-36,000	30%

The tire manufacturer also provides you with a separate tire warranty that may extend beyond the New Vehicle Limited Warranty coverage.

The tire manufacturer's tire warranty information is available through the manufacture's websites .

Tire Manufacturer	Website	Toll-Free Number
BFGoodrich	<a href="http://www.bfgoodrichtires.com">www.bfgoodrichtires.com</a>	1-877-788-8899
Bridgestone /Firestone	<a href="http://www.bridgestonetire.com">www.bridgestonetire.com</a> <a href="http://www.firestonetire.com">www.firestonetire.com</a>	U.S.: 1-800-356-4644 Canada: 1-800-267-1318
Continental/General	<a href="http://www.continentaltire.com">www.continentaltire.com</a> <a href="http://www.generaltire.com">www.generaltire.com</a>	U.S.: 1-800-847-3349 Canada: 1-855-453-1962
Goodyear/Dunlop	<a href="http://www.goodyear.com">www.goodyear.com</a>	U.S.: 1-800-321-2136 Canada: 1-855-453-1962
Hankook	U.S.: <a href="http://www.hankooktire.com/us">www.hankooktire.com/us</a> Canada: <a href="http://www.hankook.com/ca-en">www.hankook.com/ca-en</a>	U.S.: 1-800-426-5665 Canada: 1-800-843-7709
Linglong	<a href="http://www.linglongtire.com">www.linglongtire.com</a>	1-844-692-8527
Maxxis	<a href="http://www.maxxis.com">www.maxxis.com</a>	1-866-509-7067
Michelin	<a href="http://www.michelinman.com">www.michelinman.com</a>	1-866-866-6605
Nitto	<a href="http://www.nittotire.com">www.nittotire.com</a>	1-888-529-8200
Pirelli	U.S.: <a href="http://www.pirelli.com/tires/en-us/car/tire-use-guide-warranty/tirewarranty">www.pirelli.com/tires/en-us/car/tire-use-guide-warranty/tirewarranty</a> Canada: <a href="http://www.pirelli.com/tires/en-ca/car/tire-warranty">www.pirelli.com/tires/en-ca/car/tire-warranty</a>	1-800-747-3554 (English) 1-800-363-0583 (French)
Toyo	<a href="http://www.toyotires.com">www.toyotires.com</a>	1-800-442-8696
Sumitomo/Falken	<a href="http://www.falkentire.com">www.falkentire.com</a>	1-800-723-2553

You have the option of having a tire warranty repair performed by the tire manufacturer's authorized service center. If you go to a tire service center for a repair covered by the New Vehicle Limited Warranty, you may be charged a prorated amount for wear or other charges. If so, you should present your paid invoice detailing the nature of the charges to any Ford Motor Company dealership for refund consideration. When making warranty repairs on your vehicle, the dealer will use Ford or Motorcraft parts or remanufactured or other parts that are authorized by Ford. In

certain instances, Ford may authorize repairs at other than Ford dealer facilities. Tire replacements under warranty will be made with the same brand and model as originally equipped with the vehicle unless the same brand and model is no longer available, in which case a tire of the same brand, size, load, speed and tread type will be used. In some circumstances, Ford may authorize another brand and/or model to substitute for the original brand and model, even if still available.

Normal tire wear or damage is not reimbursable. See page 20 for details of what is not covered.

**Extended warranty coverage periods are available for certain vehicle parts and conditions. Specifically,**

(1) Your vehicle's Powertrain components are covered for five years or 60,000 miles, whichever occurs first. The extended coverage applies to the Engine: all internal lubricated parts, cylinder block, cylinder heads, electrical fuel pump, powertrain control module, engine mounts, flywheel, injection pump, manifold (exhaust and intake), manifold bolts, oil pan, oil pump, seals and gaskets, engine thermostat, engine thermostat housing, timing chain cover, timing chain (gears or belt), turbocharger/supercharger unit, valve covers, water pump; **Transmission:** all internal parts, clutch cover, seals and gaskets, torque converter, transfer case (including all internal parts), transmission case, transmission mounts (front and rear); **Front-Wheel Drive:** axle shafts, support bracket, front bearings, seals and gaskets, universal and constant velocity joints; **Rear-Wheel Drive:** axle shafts, rear bearings, center support bearing, drive axle housing (including all internal parts), drive shaft, retainers, supports, seals and gaskets, universal and constant velocity joints. **Four-Wheel/All-Wheel Drive:** axle shafts, support bracket, bearings (front and rear), center support bearing, drive shafts, final drive housing (including all internal parts), hubs-automatic front locking (four-wheel drive), locking rings (four-wheel drive), seals and gaskets, universal and constant velocity joints.

(2) Your vehicle's safety belts and air bag Supplemental Restraint System (SRS) are covered for an extended Safety Restraint Coverage Period, which lasts for five years or 60,000 miles, whichever occurs first.

(3) Your vehicle's body sheet metal panels are covered for an extended Corrosion Coverage Period, which lasts for five years, regardless of miles driven. The extended warranty coverage only applies if a body sheet metal panel becomes perforated due to corrosion during normal use due to a manufacturing defect in factory-supplied materials or factory workmanship. If aluminum body panels have corrosion or rust damage, and the damage is not the result of abnormal usage, vehicle accident, customer actions and/or extreme environmental conditions, the corrosion or rust damage repairs are covered for 5 years, unlimited miles. For damage caused by airborne material (environmental fallout) where there is no factory-related defect involved and therefore no warranty – our policy is to provide free repair of paint damage due to airborne material/environmental fallout when damage is reported within seven calendar days of the new vehicle delivery date (Warranty Start Date).

(4) Your vehicle's direct injection diesel engine and certain engine components are covered during the Diesel Engine Coverage Period, which lasts for five years or 100,000 miles, whichever occurs first. The following parts are covered during this extended coverage period: the engine, cylinder block, heads and all internal parts, intake and exhaust manifolds, timing gear, harmonic balancer, valve covers, oil pan and pump, water pump, fuel system (excluding fuel lines, fuel tank and frame mounted fuel conditioning module sometimes referred to as the frame mounted pump/filter/water separator or frame mounted fuel filter/water separator), high pressure lines, gaskets and seals, glow plugs, turbocharger, two-stage turbocharger assembly, turbocharger actuator, powertrain control module, high pressure fuel injection pump assembly, injectors, injection pressure sensor, fuel rail pressure sensor, exhaust back pressure regulator and sensor, exhaust pressure sensor, manifold pressure sensor, intake air temperature sensor, crankshaft position sensor, camshaft position sensor, accelerator switch.

(5) The electrical drivetrain system of your vehicle is covered by the Hybrid & Electric Vehicle Unique Component coverage for eight years or 100,000 miles, whichever comes first. The components in the electrical drivetrain system of your vehicle will vary, depending on whether your vehicle is a hybrid, plug-in hybrid, but you can rest assured knowing that your vehicle's electrical drivetrain system is covered by this comprehensive warranty. Depending on your vehicle, electrical drivetrain system components covered by this warranty may include, and are not limited to: high-voltage battery, high-voltage battery connector, battery energy control module (BECM), on-board charger, inverter system controller (ISC), DC/DC converter, hybrid continuously variable transmission or electric driveline motor and transmission range sensor. If an electrical drivetrain system component requires replacement under warranty, it may be replaced with a new, factory remanufactured, or factory refurbished component, at Ford's discretion. Refurbished battery components selected for your vehicle will align with your vehicle's age and mileage, and meet Ford's stringent requirements and standards. (see "NOTE: High-Voltage Battery Gradual Capacity Loss" below).

**NOTE: High Voltage Battery Gradual Capacity Loss**

The high voltage battery will experience gradual capacity loss with time and use, similar to all batteries, which is considered normal wear and tear. Loss of battery capacity due to or resulting from gradual capacity loss is NOT covered under the New Vehicle Limited Warranty. See your Owner's Manual for important tips on how to maximize the life and capacity of the high voltage battery.

**NOTE:** Some components may also be covered by the Emissions Warranties. For more information, see pages 24-63.

If you own or lease a 2025-model Next Generation Police Interceptor Vehicle (NGPI), refer to the Warranty Addendum Card that was given to you when you took delivery of your vehicle for further explanation of Amendments to the New Vehicle Limited Warranty. The Warranty Addendum applies only the NGPI vehicles delivered in the State of Florida and New York.

(6) Certain Commercial customers with a Valid Fleet Identification Number (FIN Code) are eligible for a five year / 100,00 mile limited powertrain warranty extension on the following vehicles: F-150 (Excluding Raptor), Super Duty (F-250 through F600) pickup, chassis cabs (F53/F59), Transit, Transit Connect and E-Series. Vehicle must be reported as a sales type “fleet” at original time of sale. To become a U.S. Ford Fleet Account, for vehicles which are owned and operated in the United States, you must register for a U.S. Fleet Identification Number (FIN Code). You will also be asked to provide proof of eligibility documentation for the vehicles in your fleet. To see if you qualify, please see the eligibility restrictions at [www.fleet.ford.com/get-started](http://www.fleet.ford.com/get-started).

This warranty extension will stay with the vehicle even if it is subsequently sold to a non-fleet customer before the expiration. This extension applies to both gas and diesel powertrains.

#### **Ford Power-Up software updates**

During the warranty coverage period, Ford Motor Company warrants that:

- you will not be charged for diagnosis, repair, replacement, or adjustment of components that are damaged or inoperable due to a defect caused by a Ford Power-Up software update.

#### **WHAT IS NOT COVERED?**

##### **Damage Caused By:**

- accidents, collision or objects striking the vehicle (including driving through a car wash)
- theft, vandalism, or riot
- fire or explosion
- using contaminated or improper fuel/fluids
- customer-applied chemicals or accidental spills
- driving through water deep enough to cause water to be ingested into any component. i.e. powertrain components
- misuse of the vehicle, such a driving over curbs, overloading, racing or using the vehicle as a permanent stationary power source

(Plug-In Vehicles only) - The New Vehicle Limited Warranty does not cover: damage to the 120V convenience cord caused by misuse of the cord. Always use the convenience cord in a manner that conforms to the directions found in the Owner's Manual.

### **Damage Caused by Alteration or Modification**

The New Vehicle Limited Warranty does not cover any damage caused by:

- alterations or modifications of the vehicle, including the body, chassis, electronics or their components, after the vehicle leaves the control of Ford Motor Company
- tampering with the vehicle, tampering with the emissions systems or with the other parts that affect these systems (for example, but not limited to exhaust and intake systems)
- the installation or use of a non-Ford Motor Company part or software (other than a certified emissions part or software) or any part or software (Ford or non-Ford) designed for off-road use only installed after the vehicle leaves the control of Ford Motor Company if the installed part fails or causes a Ford part to fail. Examples include, but are not limited to lift kits, oversized tires, roll bars, cellular phones, alarm systems, automatic starting systems and performance-enhancing powertrain components or software and performance "chips". Your vehicle may allow, enable or facilitate the use of certain non-Ford Motor Company software. Ford is not responsible for the functionality of such software. Ford may disallow, discontinue or modify your ability to use such software at any time without prior notification or incurring any warranty or other obligation. Non-Ford Motor Company software may be governed by End User License Agreement or warranty provided by the software provider. For Ford Motor Company software see End User License Agreement found in the Owner Manual.

## Damage Caused by Use and/or the Environment

The New Vehicle Limited Warranty does not cover surface rust, deterioration and damage of paint, trim, upholstery, and other appearance items that result from use and/or exposure to the elements. You, as the owner, are responsible for these items. Some examples are:

- dings, dents
- cuts, burns, punctures or tears
- road salt
- tree sap, bird and bee droppings
- windstorm, lightening, hail
- earthquake
- freezing, water or flood
- stone chips, scratches (some examples are on paint and glass)
- windshield stress cracks. However, limited coverage on windshield stress cracks will be provided for the first 12 months or 12,000 miles (whichever occurs first), even though caused by use and/or exposure to the elements.

## Maintenance/Wear

The New Vehicle Limited Warranty does not cover: (1) parts and labor needed to maintain the vehicle; and (2) the replacement of parts due to normal wear and tear. You, as the owner, are responsible for these items. See your Owner's Manual. Some examples of maintenance and normal wear are:

- oil changes
- oils, lubricants, other fluids
- oil/air filters
- tire rotation/inflation
- cleaning/polishing
- clutch linings
- wiper blades
- wheel alignments and tire balancing\*
- brake pad/lining\*

\* Ford will replace or adjust certain maintenance items when necessary, free of charge during a limited period:

- Wheel alignments and tire balancing will be provided during the first 12 months or 12,000 miles in service, whichever occurs first. Wheel alignment and steering wheel adjustments on incomplete vehicles (i.e. Chassis Cabs/Cutaway/box delete) are not reimbursable after the Second Unit body is added unless related to a Ford warranty repair for the incomplete vehicle.
- Brake pad/lining replacements will be provided during the first 12 months or 18,000 miles in service, whichever occurs first.

### **SYNC Hands-Free Communications and Entertainment System**

If your vehicle is equipped with SYNC, the New Vehicle Limited Warranty does not cover repairs under certain conditions, such as failure to provide proper installation environment. The New Vehicle Limited Warranty does not cover repairs for certain damage or loss, such as:

- Loss of personal recording media, software or data
- Loss, change, or discontinuation of functionality because of:
  - system updates to Ford Motor Company software or lack of compatibility with non-Ford Motor Company electronic devices
  - non-Ford Motor Company software, or
  - obsolescence of vehicle software or hardware
  - lack of network coverage or availability
- Damage caused by:
  - abnormal use such as insertion of foreign objects, fluid spillage
  - unauthorized modification to alter functionality or capability
  - computer or internet viruses, bugs, or malware, such as worms, Trojan Horses, cancelbots
  - installation of unauthorized software, peripherals and attachments
  - unauthorized, unapproved and/or incompatible repairs, upgrades and modification

- the defective function or obsolescence of your cellular phone or digital media device (for example, inadequate signal reception by the external antenna, viruses or other software problems)

### **Tire Wear or Damage**

The New Vehicle Limited Warranty does not cover normal wear or worn out tires. Tires will not be replaced (unless required by a warranty repair) for wear or damage including:

- tire damage from road hazard such as cuts, snags, bruises, bulges, puncture, and impact breaks
- tire damage due to under or over inflation, tire chain use, racing, spinning (as when stuck in snow or mud), improper mounting or dismounting, or tire repair

### **Other Items or Conditions Not Covered**

The New Vehicle Limited Warranty does not cover:

- vehicles that have had the odometer disconnected, altered, or inoperative for an extended period of time with the result that the actual mileage cannot be determined
- vehicles that have ever been labeled or branded as dismantled, fire, flood, junk, rebuilt, reconstructed, or salvaged; this will void the New Vehicle Limited Warranty
- vehicles that have been determined to be a total loss by an insurance company; this will void the New Vehicle Limited Warranty
- converted ambulances that are not equipped with the Ford Ambulance Prep Package, see important information about ambulance conversions (page 68)
- aftermarket parts or components, sometimes installed by Ford Motor Company or an authorized Ford dealership, may not be covered by the New Vehicle Limited Warranty. Any damage caused to Ford components due to the failure of aftermarket parts (other than a certified emissions part) is not covered.

- high-voltage battery replacement due to improper vehicle storage. Refer to the Owner's Manual for the proper ways your vehicle's battery must be maintained in the event the vehicle is not driven or is stored for an extended period of time. The Lithium-ion battery (EV battery) will experience gradual capacity loss with time and use (similar to all lithium-ion batteries), which is considered normal wear and tear. Loss of battery capacity due to or resulting from gradual capacity loss is NOT covered under the New Vehicle Limited Warranty. See your Owner's Manual for important tips on how to maximize the life and capacity of the Lithium-ion battery.
- if the component that caused the failure is beyond coverage and damages a component with remaining coverage, the entire repair is NOT reimbursable.

## 4. In addition ...

### **ROADSIDE SERVICE ASSISTANCE (UNITED STATES, PUERTO RICO, AND U.S. VIRGIN ISLANDS)**

Your vehicle is covered by the complimentary Ford Roadside Assistance Program (unless you are driving a daily rental unit). Under this program, Ford will cover:

- Towing to the nearest Ford Motor Company dealership, or towing to your selling dealership if within 35 miles of the disablement
- Flat tire change (vehicle must have usable spare)
- Fuel delivery (limited to two occurrences in a 12-month period up to 2 gal. gas, 5 gal. diesel)
- 12V Battery jump starts
- Lock-out assistance (replacement key cost is customer responsibility)
- Winch out services: includes pulling a vehicle within 100 feet of a paved or county maintained road. No recoveries.

The Roadside Assistance Program is separate from the New Vehicle Limited Warranty. It begins at the warranty start date and lasts for five years or 60,000 miles (whichever occurs first). If you need towing beyond the five years or 60,000 miles (whichever occurs first) period, Ford can arrange roadside assistance and charge your credit card. If the reason for the vehicle disablement is later found to be covered by a Ford or Lincoln Protect extended service plan, you may seek reimbursement for a tow charge under that plan.

For emergency roadside assistance, call 1-800-241-3673, 24 hours a day, 365 days a year.

Ford Rent-A-Car (FRAC) and Dealer Daily Rental (DDR) vehicles that must be towed because a covered repair failed during the warranty coverage period, Ford will cover towing to the nearest Ford Motor Company dealership.

Ford Motor Company reserves the right to modify or discontinue Roadside Assistance at any time. Certain restrictions apply to Roadside Assistance benefits. Call 1-800-241-3673 for further details.

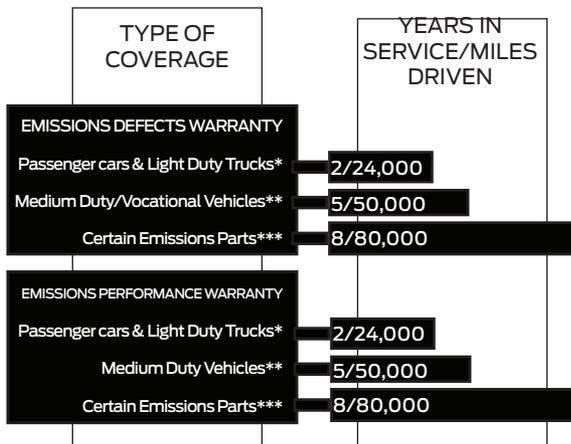
## 5. Federal requirements for emissions warranties

### QUICK REFERENCE: EMISSIONS WARRANTY COVERAGE

This chart shows your warranty coverage under two emissions warranties that Ford Motor Company provides, in compliance with Federal requirements. The warranties are:

- Emissions Defects Warranty
- Emissions Performance Warranty

Emissions Warranties for Your Vehicle



\* Applies to certain vehicles up through 10,000 pounds gross vehicle weight rating (GVWR)

\*\* Medium Duty/Heavy Duty Vehicles may apply to certain trucks over 8,500 pounds GVWR up through 19,500 pounds GVWR. Vocational Vehicles may apply to certain trucks over 8,500 pounds GVWR and less than 19,500 pounds GVWR.

\*\*\* Applies to certain vehicles up through 14,000 pounds gross vehicle weight rating (GVWR).

Note: Vocational vehicle tires covered for 2/24,000 for defects that affect compliance with greenhouse gas requirements.

For full details on emissions control coverage, see:

- Emissions Defect Warranty (pages 25-27)
- Emissions Performance Warranty (pages 27-28)
- What is Covered? (pages 29-31)
- What is Not Covered? (page 31)

**NOTE:** Fully-electric vehicles are not eligible for any emissions warranties described in this booklet.

## EMISSIONS DEFECT WARRANTY COVERAGE

During the warranty coverage period, Ford Motor Company warrants that:

- your vehicle or engine is designed, built, and equipped to meet at the time it is sold - the emissions regulations of the U.S. Environmental Protection Agency (EPA).
- your vehicle or engine is free from emission-related defects in factory-supplied materials or workmanship, which are defects that could prevent the vehicle or engine from conforming with applicable EPA regulations.
- you will not be charged for diagnosis, repair, replacement, or adjustment of parts containing an emissions-related defect. A list of emission-related parts can be found in **What is Covered?** on pages 29-31.

The warranty coverage period for:

- The emissions defects warranty coverage period for passenger cars and light duty trucks (applies to vehicles up through 8,500 pounds GVWR) and medium-duty passenger vehicles (up through 10,000 pounds GVWR designated as an “MDPV” on the underhood “VEHICLE EMISSIONS CONTROL INFORMATION” label) is as follows:
  - 8 years or 80,000 miles (whichever occurs first) for catalytic converters, particulate filters and particulate traps, electronic emissions control unit, and onboard emissions diagnostic devices, including the battery energy control module (BECM), and emission-related reprogramming of modules.
  - 2 years or 24,000 miles (whichever occurs first) for all other covered parts. (Note: Ford’s 3-year, 36,000-mile bumper-to-bumper coverage, as described above, surpasses this mandatory federal coverage.)

- Medium duty vehicles (applies to trucks over 8,500 pounds GVWR up through 14,000 pounds GVWR and not designated as a “vocational vehicle” on the underhood “VEHICLE EMISSIONS CONTROL INFORMATION” label) is as follows:
  - 8 years or 80,000 miles (whichever occurs first) for catalytic converters, SCR catalysts and related components, particulate filters and particulate traps (used with both spark-ignition and compression -ignition engines), components related to exhaust gas recirculation with compression-ignition engines and emission control modules.
  - 5 years or 50,000 miles (whichever comes first) for all other parts covered by your emissions warranty.
- Vocational Vehicles (applies to trucks over 8,500 pounds GVWR up through 19,500 pounds GVWR designated as a “vocational vehicle” on the underhood “VEHICLE EMISSIONS CONTROL INFORMATION” label)
  - The emissions warranty coverage period for vocational vehicles is 5 years or 50,000 miles (whichever comes first) for all parts covered by your emissions warranty. The 5 year or 50,000 mile warranty includes coverage of components whose failure would increase the vehicle’s emissions of air conditioning refrigerants. Tire defects that affect compliance with greenhouse gas requirements are covered for 2 years or 24,000 miles, whichever comes first.

## EMISSIONS PERFORMANCE WARRANTY COVERAGE

Under Emissions Performance Warranty Coverage, Ford Motor Company will repair, replace, or adjust - with no charge for labor, diagnosis, or parts - any emissions control device or system, if you meet all of the following conditions:

- You have maintained and operated your vehicle according to the instructions on proper care in the Owner's Manual and this booklet.
- Your vehicle fails to conform, during the warranty coverage period, to the applicable national EPA standards, as determined by an EPA-approved emission test.
- You are subject to a penalty or sanction under local, state, or federal law because your vehicle has failed to conform to the emissions standards. (A penalty or sanction can include being denied the right to use your vehicle.)
- Your vehicle has not been tampered with, misused, or abused.

The warranty coverage period for:

- The emissions performance warranty coverage period for passenger cars and light duty trucks (applies to vehicles up through 8,500 pounds GVWR) and medium-duty passenger vehicles (up through 10,000 pounds GVWR designated as an "MDPV" on the underhood "VEHICLE EMISSIONS CONTROL INFORMATION" label) is as follows:
  - 8 years or 80,000 miles (whichever occurs first) for catalytic converters, particulate filters and particulate traps, electronic emissions control unit, and onboard emissions diagnostic devices, including the battery energy control module (BECM), and emission- related reprogramming of modules.
  - 2 years or 24,000 miles (whichever occurs first) for all other covered parts.
- Medium duty vehicles (applies to trucks over 8,500 pounds GVWR up through 14,000 pounds GVWR and not designated as a "vocational vehicle" on the underhood "VEHICLE EMISSIONS CONTROL INFORMATION" label) is as follows:

- 8 years or 80,000 miles (whichever occurs first) for catalytic converters, SCR catalysts and related components, particulate filters and particulate traps (used with both spark-ignition and compression-ignition engines), components related to exhaust gas recirculation with compression-ignition engines and emission control modules.
- 5 years or 50,000 miles (whichever comes first) for all other parts covered by your emissions warranty.

See **WHAT IS COVERED?** below for list of covered parts.

Note that the warranty period begins on the **Warranty Start Date** as specified on page 2 of this booklet.

## WHAT IS COVERED?

If the parts on the following list contain an emissions-related defect, they are covered by the Defects Warranties.

- Aftertreatment Sensors
- Air Flow Sensor
- Air/Fuel Feedback Control System and Sensors
- Air Induction System
- Anti-lock Brake System Module (Hybrid and Plug-in Hybrid vehicles only except Explorer hybrid)
- Battery Energy Control Module (BECM)
- Belt Integrated Starter Generator (Hybrid and Plug-in Hybrid vehicles only)
- Brake Hydraulic/Electric Control Assembly (Plug-in Hybrid vehicles only)
- Brake Vacuum Pump (Plug-in Hybrid vehicles only)
- Catalytic Converters (including Selective Catalytic Reduction and Diesel Oxidation Catalysts)
- Charger and Bracket Assembly High Voltage Battery (Hybrid and Plug-in Hybrid vehicles only)
- Cold Start Enrichment System (diesel only)
- Controls for Deceleration (diesel only)
- Converter and Bracket Assembly High Voltage to Low Voltage (Hybrid and Plug-in Hybrid vehicles only)
- Diesel Exhaust Fluid System
- Diesel Particulate Filter
- Electronic Ignition System (diesel only)
- Electronic Engine Control Sensors and Switches
- Powertrain Control Module (PCM)/ Engine Control Module (ECM)\*
- Evaporative Emission Control System
- Exhaust Gas Recirculation (EGR) System
- Exhaust Manifold
- Exhaust Pipe (Manifold to Catalyst)
- Fuel Filler Door Sensor (Hybrid and Plug-in Hybrid vehicles only)
- Fuel Filler Tube and Seal (non-diesel only)
- Fuel Injection System
- Fuel Injector Supply Manifold
- Fuel Tank (non-diesel only)
- Fuel Tank Pressure Control valve

- Glow Plugs (diesel only)
- High Voltage Battery (Hybrid and Plug-in Hybrid vehicles only)
- HVAC Controller (Plug-in Hybrid vehicles only)
- Ignition Coil and/or Control Module
- Intake Manifold
- Intercooler Assembly-Engine Charger
- Inverter System Controller (Plug-in Hybrid vehicles only)
- Jumper Assembly Charge Inlet to Charger (Hybrid and Plug-in Hybrid vehicles only)
- Jumper Assembly DC/DC Converter to High Voltage Panel (Hybrid and Plug-in Hybrid vehicles only)
- Malfunction Indicator Lamp (MIL)/On-Board Diagnostic (OBD) System
- Module and Bracket Assembly Transmission Inverter Control (Hybrid and Plug-in Hybrid vehicles only)
- Motor Electronics Coolant Pump (Plug-in Hybrid vehicles only)
- PCV system and Oil Filler Cap
- Onboard Charger (Plug-in Hybrid vehicles only)
- Secondary Air Injection System
- Spark Control Components
- Spark Plugs and Ignition Wires
- Thermostat
- Throttle Body Assembly (MFI)
- Transmission Assembly (Plug-in Hybrid vehicles only)
- Transmission Auxiliary Oil Pump (Plug-in Hybrid vehicles only)
- Transmission Fluid Temperature Sensor (Plug-in Hybrid vehicles only)
- Transmission Control Module (TCM) and Solenoids
- Turbocharger Assembly
- Vacuum Distribution System

\* Includes hardware and emissions related software changes only

## **Important Information About List of Parts**

Also covered by the two emissions warranties are all emissions-related bulbs, hoses, clamps, brackets, tubes, gaskets, seals, belts, connectors, non-diesel fuel lines, sensors, and wiring harnesses that are used with components on the list of parts, above.

Concerning parts that should be replaced on a certain maintenance schedule: these parts remain under warranty until : (a) the first replacement time that is specified in your **Owner's Manual**; or (b) the time or mileage limits of the Federal Defect and Performance Warranties (whichever occurs first). Your Ford Motor Company dealer maintains a complete list of parts covered by the emissions performance warranty. For questions about emission-related parts, contact your dealer.

### **WHAT IS NOT COVERED?**

Ford Motor Company may deny you emissions warranty coverage due to abuse, neglect, improper maintenance, or unapproved modifications.

If you need more information about getting service under the **Federal Emissions Performance Warranty**, or if you want to report what you believe to be violations of the terms of this warranty, you may contact:

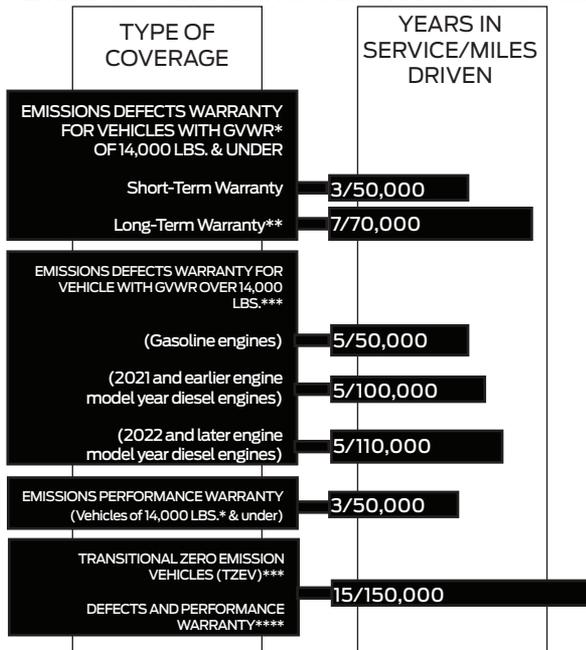
**U.S. Environmental Protection  
Agency Office of Transportation  
and Air Quality Compliance  
Division, Light-Duty Vehicle Group  
Attn: Warranty Complaints  
2000 Traverwood Drive  
Ann Arbor, MI 48105  
Email: [complianceinfo@epa.gov](mailto:complianceinfo@epa.gov)**

## 6. California requirements for emissions warranties

### QUICK REFERENCE: EMISSIONS WARRANTY COVERAGE

This chart shows the emission warranty that Ford Motor Company provides for your vehicle under the emissions control warranty in accordance with the regulations of the California Air Resources Board. This coverage is in addition to Federal Emission warranties page 24.

Emissions Warranties for California Certified Vehicles



\* Gross Vehicle Weight Rating

\*\* These specific parts were selected on the basis of their estimated replacement cost at the time the California Air Resources Board certified your vehicle for sale in California (up through 14,000 pounds GVWR).

\*\*\* Refer to your Vehicle Emission Control Information and Important Engine Information (if applicable) label for emissions certification information.

\*\*\*\* Except for the high voltage battery, which is covered for 10 years or 150,000 miles (whichever occurs first).

**NOTE: Fully-electric vehicles are not eligible for any emissions warranties described in this booklet.**

## Vehicles Eligible for California Emission Warranty Coverage

California emission warranty coverage applies if your vehicle meets the following two requirements:

- Your vehicle is registered in a state<sup>1</sup> that has adopted and is enforcing California emission warranty regulations applicable for your vehicle at the time of repair, and
- Your vehicle is certified for sale in California as indicated on the vehicle emission control information label.

<sup>1</sup> Subject to change, the following states have adopted and are enforcing California emission warranty regulations:

- **Passenger Car & Light-duty Trucks** (up through 8,500 pounds GVWR) - California, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New Jersey, New York, Oregon, Pennsylvania, Rhode Island, Vermont, Virginia and Washington
- **Medium-Duty Passenger Vehicles** (up through 10,000 pounds GVWR designed primarily for the transportation of persons. Excludes incomplete trucks, trucks with a seating capacity either over twelve persons total or over nine persons rearward of the driver's seat, or trucks with an open cargo area of at least six feet of interior length): California, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New York, Oregon, Rhode Island, Vermont, Virginia and Washington
- **Medium-Duty Vehicles** (over 8,500 pounds GVWR up through 14,000 pounds GVWR) - California, Colorado, Connecticut, Delaware, Maine, Maryland, Massachusetts, Minnesota, Nevada, New York, Oregon, Rhode Island, Vermont and Virginia.
- **Light Heavy-Duty Diesel Engine Vehicles** (over 14,000 pounds GVWR up through 19,500 pounds GVWR) - California, Maine and Pennsylvania.

## Vehicles Eligible for California Transitional Zero Emission Vehicle (TZEV) Emission Warranty Coverage

California Transitional Zero Emissions Vehicle (TZEV) extended emission warranty coverage applies if your vehicle meets the following two requirements:

- Your vehicle is registered in a state\*\* that has adopted and is enforcing California TZEV emissions warranty regulations applicable to your vehicle at the time of repair, and
- Your vehicle is certified as a TZEV in California as indicated on the vehicle emission control information label.

\*\*Subject to change, the following states have adopted and are enforcing California TZEV emission warranty regulations: California, Colorado, Connecticut, Maine, Maryland, Massachusetts, New Jersey, New York, Rhode Island, and Vermont (NOTE: Delaware, Pennsylvania and Washington did not adopt the California TZEV emission warranty; standard California emission warranty coverage applies to all emission components. Oregon adopted high voltage battery TZEV warranty requirements only.)

For full details about coverage under California requirements for emissions control, see:

- Defects Warranties (pages 35-59)
- Performance Warranty (pages 35-38)
- What Is Covered? (pages 39-59)
- What Is Not Covered? (page 59)

## EXPLANATION OF CALIFORNIA EMISSIONS WARRANTIES CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

### Your Warranty Rights and Obligations

The California Air Resources Board and Ford Motor Company are pleased to explain the emission control system warranty on your 2025-model vehicle. In California, new motor vehicles must be designed, built, and equipped to meet the State's stringent anti-smog standards. Ford must warrant the emission control system on your vehicle for the periods of time listed on pages 35-38, provided there has been no abuse, neglect, or improper maintenance of your vehicle.

Your emission control system may include parts such as the fuel injection system, the ignition system, catalytic converter, and the engine computer. Also included may be hoses, belts, connectors, and other emissions-related assemblies.

Where a warrantable condition exists, Ford Motor Company will repair your vehicle at no cost to you including diagnosis, parts, and labor.

### Manufacturer's Warranty Coverage

#### For Vehicles Eligible for California Emission Warranty Coverage

If Gross Vehicle Weight Rating is 14,000 lbs. or less:

For 3 years or 50,000 miles (whichever occurs first):

1. If your vehicle fails a Smog Check inspection, all necessary repairs and adjustments will be made by Ford to ensure that your vehicle passes the inspection. This is your emission control system PERFORMANCE WARRANTY.
2. If any emissions-related part on your vehicle is defective, the part will be repaired or replaced by Ford. This is your short-term emission control system DEFECTS WARRANTY.

For 7 years or 70,000 miles (whichever occurs first):

If an emissions-related part listed in this warranty booklet specially noted with coverage for 7 years or 70,000 miles is defective, the part will be repaired or replaced by Ford. This is your long-term emission control system DEFECTS WARRANTY.

For a list of the high-priced emission-related parts that are covered for 7 years or 70,000 miles, go to [www.owner.ford.com](http://www.owner.ford.com) /Owner Manuals.

Select the list that corresponds to the model and the model year of your vehicle. **NOTE:** This list is vehicle specific and may not be the same for all vehicles. It is based on the replacement cost of each specific part, which can vary between vehicle lines.

If Gross Vehicle Weight Rating is over 14,000 lbs.:

- If a covered component contains an emissions-related defect, the component will be repaired or replaced by Ford:
  - For 5 years or 50,000 miles (whichever occurs first) for gasoline engines
  - For 5 years or 110,000 miles (whichever occurs first) for diesel engines

Vocational Vehicles (applies to trucks over 8,500 pounds GVWR up through 19,500 pounds GVWR designated as a “vocational vehicle” on the underhood “VEHICLE EMISSIONS CONTROL INFORMATION” label)

- In addition to the defects warranties already described, the defects warranty period for components whose failure would increase the vehicle’s emissions of air conditioning refrigerant is 5 years or 50,000 miles (whichever occurs first). Tire defects that affect compliance with greenhouse gas requirements are covered for 2 years or 24,000 miles (whichever occurs first).

## For Vehicles Eligible for California TZEV Emission Warranty Coverage

Except as noted below, for 15 years or 150,000 miles (whichever first occurs):

1. If your vehicle fails a Smog Check inspection, all necessary repairs and adjustments will be made by Ford to ensure that your vehicle passes the inspection. This is your emission control system PERFORMANCE WARRANTY.
2. If any covered component contains an emissions-related defect, the component will be repaired or replaced by Ford. This is your emission control system DEFECTS WARRANTY.

**NOTE:** The TZEV warranty period for the high-voltage battery is 10 years or 150,000 miles (whichever first occurs).

## Owner's Warranty Responsibilities

As the vehicle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Ford Motor Company recommends that you retain all receipts covering maintenance on your vehicle, but Ford cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your vehicle to a Ford Motor Company dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the vehicle owner, you should also be aware that Ford Motor Company may deny you warranty coverage if your vehicle or a part has failed due to abuse, neglect, improper maintenance, or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, or if you want to report what you believe to be violations of the terms of this warranty, you may contact the Ford Customer Relationship Center at 1-800-392-3673 (FORD) or the California Air Resources Board at:

**California Air Resources Board  
4001 Iowa Avenue  
Riverside, California 92507**

## WHAT IS COVERED?

If the parts on the following list contain an emissions-related defect, they are covered by the Defects Warranties.

- Aftertreatment Sensors
- Air Flow Sensor
- Air/Fuel Feedback Control System and Sensors
- Air Induction System
- Anti-lock Brake System Module (Hybrid and Plug-in Hybrid vehicles only except Explorer hybrid)
- Battery Energy Control Module (BECM)
- Belt Integrated Starter Generator (Hybrid and Plug-in Hybrid vehicles only)
- Brake Hydraulic/Electric Control Assembly (Plug-in Hybrid vehicles only)
- Brake Vacuum Pump (Plug-in Hybrid vehicles only)
- Camshaft\*\*
- Catalytic Converters (including Selective Catalytic Reduction and Diesel Oxidation Catalysts)
- Charger and Bracket Assembly High Voltage Battery (Hybrid and Plug-in Hybrid vehicles only)
- Cold Start Enrichment System (diesel only)
- Controls for Deceleration (diesel only)
- Converter and Bracket Assembly High Voltage to Low Voltage (Hybrid and Plug-in Hybrid vehicles only)
- Cylinder head\*\*
- Diesel Exhaust Fluid System
- Diesel Particulate Filter
- Electronic Ignition System (diesel only)
- Electronic Engine Control Sensors and Switches
- Powertrain Control Module (PCM)/ Engine Control Module (ECM)\*
- Evaporative Emission Control System
- Exhaust Gas Recirculation (EGR) System
- Exhaust Manifold
- Exhaust Pipe (Manifold to Catalyst)
- Exhaust Valve\*\*
- Fuel Filler Door Sensor (Hybrid and Plug-in Hybrid vehicles only)
- Fuel Filler Tube and Seal (non-diesel only)
- Fuel Injection System

- Fuel Injector Supply Manifold
- Fuel Tank (non-diesel only)
- Fuel Tank Pressure Control valve
- Glow Plugs (diesel only)
- High Voltage Battery (Hybrid and Plug-in Hybrid vehicles only)
- HVAC Controller (Plug-in Hybrid vehicles only)
- Ignition Coil and/or Control Module
- Intake Manifold
- Intake Valve\*\*
- Intercooler Assembly-Engine Charger
- Inverter System Controller (Plug-in Hybrid vehicles only)
- Jumper Assembly Charge Inlet to Charger (Hybrid and Plug-in Hybrid vehicles only)
- Jumper Assembly DC/DC Converter to High Voltage Panel (Hybrid and Plug-in Hybrid vehicles only)
- Malfunction Indicator Lamp (MIL)/On-Board Diagnostic (OBD) System
- Module and Bracket Assembly Transmission Inverter Control (Hybrid and Plug-in Hybrid vehicles only)
- Motor Electronics Coolant Pump (Plug-in Hybrid vehicles only)
- PCV system and Oil Filler Cap
- Piston\*\*
- Onboard Charger (Plug-in Hybrid vehicles only)
- Secondary Air Injection System
- Spark Control Components
- Spark Plugs and Ignition Wires
- Thermostat
- Throttle Body Assembly (MFI)
- Transmission Assembly (Plug-in Hybrid vehicles only)
- Transmission Auxiliary Oil Pump (Plug-in Hybrid vehicles only)
- Transmission Fluid Temperature Sensor (Plug-in Hybrid vehicles only)
- Transmission Control Module (TCM) and Solenoids
- Turbocharger Assembly
- Vacuum Distribution System
- Valve Spring\*\*

\* Includes hardware and emissions related software changes only

\*\* Heavy-Duty Diesel only

"COVERAGE FOR 2025 MODEL VEHICLES (GVWR OF 14,000 LBS. OR LESS) UNDER LONG TERM DEFECTS WARRANTY APPLICABLE ONLY TO CALIFORNIA-CERTIFIED VEHICLES REGISTERED IN A STATE THAT HAS ADOPTED AND IS ENFORCING CALIFORNIA EMISSION WARRANTY REGULATIONS  
(Coverage for up to 7 years/70,000 miles, whichever first occurs)"

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
Instrument Cluster (2)	X	X	X	X	X	X	X	X	X	X	X
Active Grill Shutter Actuator						X	X	X	X		X
Battery Energy Control Module											
On-Board Battery Charger (1)								X			
High Voltage Tranction Battery								X	X		
Battery Integrated Starter Generator											
CS Sensor Ring						X					
Powertrain Control Wiring Harness (4)	X	X	X	X	X			X	X	X	
Ambient Air Temperature Sensor											X
Sensor Coolant Temp				X	X						X
Powertrain Control Module (PCM) / Engine Control Module	X	X	X	X	X	X	X	X	X	X	X
Knock Sensor (KS)				X	X						X
Exhaust Gas Temperature Sensor Assembly											
Engine Control Sensor & Fuel Charge Wrng Assy (4)											
Wire Assembly - Engine Control and Sensors (4)		X	X	X				X	X	X	
Rear Lamp Connection Wire Harness (4)										X	
Dash Panel & Headlamp Junction Wiring (4)	X	X	X	X	X	X	X	X	X	X	X
Battery Harness (4)											X
Interior Wiring Assembly (4)			X	X	X					X	X
Roof Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
Main Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Rear Lamp Wiring Assembly (4)			X	X	X					X	
Fuel Sender Wiring Assembly (4)	X	X				X	X	X	X		
Fuel Tank Jumper Harness			X	X	X						
Fuse Assembly (4)			X	X	X	X	X	X	X		X
Main Body Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
HVEDS Charge Port Harness								X	X		
Main Jumper Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Molded Lead Frame Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
Transmission Harness Connector (4)	X	X	X	X	X					X	X
Battery Harness/ Engine Wiring Assembly (4)											
DCDC Converter and Bracket Assembly								X	X		
Inductor								X	X		
Gateway Module	X	X	X	X	X	X	X	X	X	X	X
ISC and Bracket Assembly								X	X		
Transmission Harness Connector											
Body Control Module (BCM)											
Valve Assembly - Htr Wtr Control (4)								X	X		
Pump Assembly Htr (1)(4)-CAC Pump								X			

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
EGHR-Exhaust Gas Heat Recovery								X	X		
A/C Compressor								X	X		
CONDENSER - A/C											
CONDENSER - A/C								X	X		
A/C Condenser								X	X		
Condenser to Evaporator Tube											
A/C Expansion Valve											
A/C Evaporator Assembly								X	X		
REFRIGERANT HOSE/ACCUM - A/C											
A/C Compressor to Condenser Tube											
Refrigerant Line-A/C											
REFRIGERANT - A/C											
A/C Accumulator Assembly								X	X		
Switch-A/C Pressure											
COMPRESSOR - A/C								X	X		
COMPRESSOR - A/C											
Core & SE Asy-A/C Evp								X	X		
Brake Vacuum Pump (1)											
ABS Module			X								
ABS Electronic Control Module (4)			X					X	X		
Power Steering Wiring Assembly (4)										X	
Shims								X	X		
Bearing on the differential								X	X		
Bearing Race								X	X		
Bearing on the differential								X	X		
Underbody Catalyst and Cold End Assembly Active Exhaust Valve					X						
Catalyst Inlet Pipe			X								
Active Exhaust Valve											
EGHR-Exhaust Gas Heat Recovery											
Top assembly Cold End Exhaust											
Exhaust to Turbo Gasket				X	X					X	
Catalytic Converter	X	X	X	X	X	X	X	X	X	X	X
Catalytic Converter											X
Catalytic Converter			X	X	X					X	
Catalytic Converter and Pipe											
Exhaust Manifold & Catalyst Assembly								X	X		
Diesel Particulate Filter Assembly											
Catalyst and Particulate Filter Assembly											
DEF Tank											
Reductant Pump Assembly											
DEF Quality Sensor											
DEF Pressure Line											

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
DEF Tank											
NOX Module, NOX Sensor Assembly											
Reductant Heater and Sender Asy											
Cylinder head											
Piston											
Camshaft											
Camshaft Timing Assembly	X	X	X	X	X	X	X	X	X	X	X
Adjuster Assembly - Valve Lifter (4)	X	X	X	X	X	X	X	X	X	X	X
Exhaust Valve											
Intake Valve											
Valve Spring											
Arm Assembly - Valve Rocker (4)	X		X	X	X	X				X	X
Valve Rocker Cover Assembly (RH, LH)		X	X	X	X	X				X	X
Oil Pump Assembly (4)				X	X			X	X	X	
Crankshaft Position Sensor (CKP)										X	
Variable Camshaft Timing Assembly	X	X	X	X	X	X	X			X	X
Duct, Charge Air Cooler Hot		X		X							
Supercharger Assembly											
Charge Air Cool Tube Assembly Inlet		X		X							
Charge Air Cool Tube Assembly Outlet		X									
Turbocharger Control Valve (Supercharger Bypass Actuator)											
Cylinder Head Temperature Sensor				X	X						X
Solenoid Assembly (4)											
Camcover Gasket			X	X	X	X				X	X
Turbocharger	X	X	X	X	X	X	X			X	X
Charge Air Cooler	X	X				X	X			X	X
Catalytic Converter Gasket										X	
Engine Variable Camshaft Timing Solenoid				X						X	X
Exhaust Manifold and Turbo to Up-Pipe Gaskets											
Downpipe											
Gasket for Turbo Oil Tube				X		X	X	X	X	X	
Transmission/ HPCM-Hybrid Powertrain Control Module (1)								X	X		
Transmission/Diff Assembly (4)										X	X
Damper housing - trans case half								X	X		
Bearing											
Input shaft seal in Damper Hsg								X	X		
ISC Final Assembly (ISC+bracket)											
Back cover								X	X		
Oil flow funnel								X	X		
Filter								X	X		
Transmission Control Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Transmission Auxiliary Oil Pump (1)								X			

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
Ring gear								X	X		
Park Pawl								X	X		
Planetary Gear Assembly								X	X		
Inverter System Controller (1) (4)								X	X		
Splash Cover/ Vent Plate								X	X		
Gasket ISC								X	X		
INDUCTOR BOLT -DOWEL PIN								X	X		
Transmission Harness Connector (4)			X	X	X					X	X
Park spring											
Pawl Shaft											
Bearing											
Rod Park											
PRK ABUT BRKT-Park component											
Transmission Range Sensor Assembly											
Gear								X	X		
Final Drive Ring Gear								X	X		
Ring & Diff Assembly								X	X		
Park Rod ABUT								X	X		
Transmission Torque Clutch Solenoid Assembly (4)	X	X	X	X	X	X	X	X	X		
Transmission Internal MLF Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
Ring -Snap ring								X	X		
Pressure Regulator Sensor	X	X	X	X	X	X	X	X	X	X	
Transmission Solenoid Assembly	X	X				X	X	X	X		
Pressure Regulator Solenoid Assembly	X	X				X	X	X	X		
Gear - pump drive								X	X		
Output Shaft Speed (OSS) Sensor	X	X				X	X	X	X		
Transmission Fluid Temperature (TOT) Sensor	X	X	X	X	X	X	X	X	X		
Axle Seal All Wheel Drive								X	X		
Stator - Large Traction								X	X		
Bearing								X	X		
Gear/ Shaft Assembly								X	X		
Transfer Shim								X	X		
Hub-Ring Gear								X	X		
Transmission Range Sensor / Detent Assembly	X	X	X	X	X	X	X	X	X	X	
Transmission Solenoid - 5R110W	X	X	X	X	X	X	X	X	X		
Bearing								X	X		
Stator- Small Gen								X	X		
Magnet -debris collection								X	X		
Turbine/Input Shaft Speed (TSS) Sensor Assembly											
Gen Rotor Assembly with bearings and cup plug								X	X		
Rotor w/Brg								X	X		
Aux Pump								X	X		

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
Emotor Front Module											
Park System Module								X	X		
Transfer Shaft								X	X		
Internal Seal								X	X		
Transmission Control Module (TCM) Assembly											
Seal on end cover of rotors								X	X		
Active Grill Shutters											X
Thermostat Assembly											X
Valve Assembly - Htr Wtr Control (1)(4)								X	X		
Fuel Tank	X	X	X	X	X			X	X	X	X
Fuel Tank Filler Pipe			X	X	X						
Fuel Tank Sender and Outlet Tube Assembly								X	X		
Fuel Delivery Module O-Ring Gasket	X	X	X	X	X						
Fuel Tube											
High Pressure Fuel Pump	X	X	X	X	X	X	X	X	X		X
Intake Manifold							X				X
Exhaust Manifold (Right Hand)											X
Exhaust Manifold (Left Hand)											X
Intake Manifold Gasket											
Intake Manifold Gasket LH						X					
Exhaust Manifold Gasket		X	X	X	X	X	X	X	X	X	X
Flat/Ring Exhaust Gasket	X		X	X	X	X					X
Air Cleaner Assembly (ACL)											
Fuel Tank Shield			X	X	X	X	X	X	X		
Fuel Tank Sender	X	X	X	X	X						
Fuel Line Assembly Fuel Supply											
High Pressure Fuel Injector Pump											
Fuel Injector Tube Return Line											
Fuel Tank Shield	X	X	X	X	X	X	X	X	X		
Fuel Filler Kit											
Fuel Vapor Tube and Hose Assembly			X	X	X						X
Fuel Tank Pressure Sensor	X	X	X	X	X			X	X		
Leak Detection Pump											
Fuel Pump Retaining Lock Ring	X	X	X	X	X			X	X		
Fuel Injection Fuel Supply Manifold Assembly		X	X	X	X		X			X	
Fuel Tube Return Line to Tank End	X	X	X	X	X			X	X		
Pump Electronic Module (PEM) Fuel Pump						X	X				
EGR Valve Assembly											
Carbon Canister and Bracket Assembly						X	X	X	X	X	
Rear Vapor Line Assembly Tank to Vapor Blocking Valve (VBV)											X
Fuel Injector Wiring Harness (4)											
Fuel Vapor Hose											

Part Description	1.5L Bronco Sport (3)	2.0L Bronco Sport (3)	2.3L Bronco (3)	2.7L Bronco (3)	3.0L Bronco	1.5L Escape (3)	2.0L Escape (3)	2.5L Plug-in Hybrid Escape	2.5L Hybrid Escape	3.5L Expedition (3)	2.3L Explorer (3)
Fuel Injector Assembly											
Air Intake Throttle Body											
Fuel Tube Assembly											
Universal Exhaust Gas Oxygen Sensor (UEGO)											
EGR Tube to Manifold Connector										X	
Fuel Injector		X	X	X	X					X	X
Fuel Injector Fuel Supply Manifold										X	
Fuel Injector Charge Assembly		X		X	X	X				X	
Injection Pressure Sensor											
Fuel Distrib											
Up-Pipe (RH) Single Wall											
Turbocharger		X	X				X				X
Turbocharger Actuator Kit	X	X	X	X	X	X	X			X	X
Low Pressure Fuel and Temperature Sensor				X							
Direct Fuel Injector		X	X	X	X					X	X
Fuel Delivery Module	X	X	X	X	X	X	X	X	X	X	X
Intake Manifold Connector											
Fuel Injector Kit											
Fuel Tube Supply			X	X	X	X	X	X	X	X	X
Fuel Supply Line Tank to Bundle	X	X	X	X	X						
Sensor to Rail Fuel Line	X	X								X	X
Fuel Pump to Fuel Rail Tube		X		X	X					X	
EGR Pressure Sensor				X	X						X
Tank Assembly (without straps)			X	X	X						
Turbocharger Control Solenoid											
Intake Manifold Lower											
Exhaust/Emission Control Wire Assembly (4)											
Holder and Nozzle Assembly Fuel Injector											
Fuel Tube Assembly											
Exhaust to Turbo Gasket	X					X				X	
Turbo Exhaust Adapter											
Compressor Bypass Valve			X	X	X					X	
EGR Outlet Temperature Sensor				X							X
EGR Cooler											

- (1) For Plug-in Hybrid Vehicles Only
- (2) For Service Engine Soon/Malfunction Indicator Lamp (MIL) Functionality Concerns Only

- (3) For EcoBoost Engine Only
- (4) For MIL Illumination Only
- (5) For Non-EcoBoost Engine Only

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 APPLICABLE ONLY TO CALIFORNIA-CERTIFIED VEHICLES REGISTERED IN A STATE THAT HAS ADOPTED AND IS ENFORCING  
 CALIFORNIA EMISSION WARRANTY REGULATIONS  
 (Coverage for up to 7 years/70,000 miles, whichever first occurs)"

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
Instrument Cluster (2)	X	X	X	X	X	X	X	X	X	X	X
Active Grill Shutter Actuator	X										
Battery Energy Control Module		X				X				X	
On-Board Battery Charger (1)											
High Voltage Tranction Battery		X				X				X	
Battery Integrated Starter Generator		X				X					
CS Sensor Ring								X			
Powertrain Control Wiring Harness (4)				X	X	X	X	X	X	X	X
Ambient Air Temperature Sensor	X	X	X								
Sensor Coolant Temp	X			X	X	X	X	X			
Powertrain Control Module (PCM) / Engine Control Module	X	X	X	X	X	X	X	X	X	X	X
Knock Sensor (KS)		X		X							
Exhaust Gas Temperature Sensor Assembly	X										
Engine Control Sensor & Fuel Charge Wrng Assy (4)											
Wire Assembly - Engine Control and Sensors (4)				X	X	X		X	X	X	
Rear Lamp Connection Wire Harness (4)											
Dash Panel & Headlamp Junction Wiring (4)	X	X	X	X	X	X	X	X	X	X	X
Battery Harness (4)	X	X	X								X
Interior Wiring Assembly (4)	X	X	X	X	X	X	X	X			
Roof Wiring Harness (4)									X	X	
Main Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Rear Lamp Wiring Assembly (4)				X	X	X	X	X	X	X	
Fuel Sender Wiring Assembly (4)									X	X	
Fuel Tank Jumper Harness	X	X	X								
Fuse Assembly (4)	X	X	X								
Main Body Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
HVEDS Charge Port Harness		X				X					
Main Jumper Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Molded Lead Frame Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	
Transmission Harness Connector (4)	X	X	X	X	X	X	X	X	X	X	X
Battery Harness/ Engine Wiring Assembly (4)					X	X					
DCDC Converter and Bracket Assembly		X				X				X	
Inductor											X
Gateway Module	X	X	X	X	X	X	X	X	X	X	X
ISC and Bracket Assembly		X				X				X	
Transmission Harness Connector				X	X	X	X	X			
Body Control Module (BCM)									X	X	
Valve Assembly - Htr Wtr Control (4)		X									
Pump Assembly Htr (1)(4)-CAC Pump								X			

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
EGHR-Exhaust Gas Heat Recovery						X				X	
A/C Compressor		X				X				X	
CONDENSER - A/C						X					
CONDENSER - A/C						X				X	
A/C Condenser		X				X				X	
Condenser to Evaporator Tube		X									
A/C Expansion Valve		X									
A/C Evaporator Assembly		X				X				X	
REFRIGERANT HOSE/ACCUM - A/C						X					
A/C Compressor to Condenser Tube						X					
Refrigerant Line-A/C		X				X					
REFRIGERANT - A/C		X									
A/C Accumulator Assembly		X								X	
Switch-A/C Pressure						X					
COMPRESSOR - A/C		X				X				X	
COMPRESSOR - A/C		X									
Core & SE Asy-A/C Evp		X								X	
Brake Vacuum Pump (1)											
ABS Module											
ABS Electronic Control Module (4)						X				X	X
Power Steering Wiring Assembly (4)				X	X	X	X	X			
Shims						X				X	
Bearing on the differential		X				X				X	
Bearing Race		X				X				X	
Bearing on the differential										X	
Underbody Catalyst and Cold End Assembly Active Exhaust Valve					X			X	X	X	X
Catalyst Inlet Pipe											
Active Exhaust Valve											
EGHR-Exhaust Gas Heat Recovery						X					
Top assembly Cold End Exhaust											
Exhaust to Turbo Gasket				X	X	X					
Catalytic Converter	X	X	X	X	X	X	X	X	X	X	X
Catalytic Converter	X	X	X								
Catalytic Converter				X	X	X	X	X			
Catalytic Converter and Pipe											
Exhaust Manifold & Catalyst Assembly										X	
Diesel Particulate Filter Assembly											
Catalyst and Particulate Filter Assembly											
DEF Tank											
Reductant Pump Assembly											
DEF Quality Sensor											
DEF Pressure Line											

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
DEF Tank											
NOX Module, NOX Sensor Assembly											
Reductant Heater and Sender Asy											
Cylinder head											
Piston											
Camshaft											
Camshaft Timing Assembly	X	X	X	X	X	X	X	X	X	X	X
Adjuster Assembly - Valve Lifter (4)	X	X	X	X	X	X	X	X	X	X	X
Exhaust Valve											
Intake Valve											
Valve Spring											
Arm Assembly - Valve Rocker (4)	X			X	X	X	X	X			X
Valve Rocker Cover Assembly (RH, LH)	X	X	X	X	X	X	X		X	X	
Oil Pump Assembly (4)	X	X	X	X	X	X	X	X		X	X
Crankshaft Position Sensor (CKP)					X	X					
Variable Camshaft Timing Assembly	X	X	X	X	X	X	X	X	X		X
Duct, Charge Air Cooler Hot									X		
Supercharger Assembly								X			
Charge Air Cool Tube Assembly Inlet	X								X		
Charge Air Cool Tube Assembly Outlet	X										
Turbocharger Control Valve (Supercharger Bypass Actuator)				X	X	X	X	X			
Cylinder Head Temperature Sensor	X			X							
Solenoid Assembly (4)							X				
Camcover Gasket	X	X	X	X	X	X	X		X	X	
Turbocharger	X			X	X	X			X		X
Charge Air Cooler	X			X	X	X		X	X	X	X
Catalytic Converter Gasket											
Engine Variable Camshaft Timing Solenoid	X	X	X		X	X	X	X	X	X	
Exhaust Manifold and Turbo to Up-Pipe Gaskets											
Downpipe											
Gasket for Turbo Oil Tube	X	X	X	X	X	X	X	X	X	X	
Transmission/ HPCM-Hybrid Powertrain Control Module (1)		X				X				X	
Transmission/Diff Assembly (4)	X		X	X	X	X	X	X			X
Damper housing - trans case half		X				X				X	
Bearing		X				X				X	
Input shaft seal in Damper Hsg		X				X				X	
ISC Final Assembly (ISC+bracket)						X					
Back cover						X				X	
Oil flow funnel										X	
Filter						X				X	
Transmission Control Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Transmission Auxiliary Oil Pump (1)											

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
Ring gear		X				X				X	
Park Pawl		X				X				X	
Planetary Gear Assembly		X				X				X	
Inverter System Controller (1) (4)		X				X				X	
Splash Cover/ Vent Plate										X	
Gasket ISC										X	
INDUCTOR BOLT -DOWEL PIN										X	
Transmission Harness Connector (4)											
Park sping						X				X	
Pawl Shaft						X				X	
Bearing										X	
Rod Park						X				X	
PRK ABUT BRKT-Park component						X				X	
Transmission Range Sensor Assembly											X
Gear										X	
Final Drive Ring Gear										X	
Ring & Diff Assembly						X				X	
Park Rod ABUT						X				X	
Transmission Torque Clutch Solenoid Assembly (4)									X	X	X
Transmission Internal MLF Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	
Ring -Snap ring										X	
Pressure Regulator Sensor				X	X	X	X	X	X	X	X
Transmission Solenoid Assembly									X	X	
Pressure Regulator Solenoid Assembly									X	X	
Gear - pump drive										X	
Output Shaft Speed (OSS) Sensor				X	X	X	X	X	X	X	
Transmission Fluid Temperature (TOT) Sensor									X	X	X
Axle Seal All Wheel Drive										X	
Stator - Large Traction						X				X	
Bearing						X				X	
Gear/ Shaft Assembly										X	
Transfer Shim										X	
Hub-Ring Gear										X	
Transmission Range Sensor / Detent Assembly		X	X	X	X	X	X	X	X	X	X
Transmission Solenoid - 5R110W									X	X	X
Bearing										X	
Stator- Small Gen										X	
Magnet -debris collection						X				X	
Turbine/Input Shaft Speed (TSS) Sensor Assembly				X	X	X	X	X			
Gen Rotor Assembly with bearings and cup plug										X	
Rotor w/Brg						X				X	
Aux Pump		X				X				X	

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
Emotor Front Module		X		X	X	X	X	X			
Park System Module										X	
Transfer Shaft										X	
Internal Seal										X	
Transmission Control Module (TCM) Assembly											
Seal on end cover of rotors										X	
Active Grill Shutters	X			X	X	X	X				X
Thermostat Assembly											
Valve Assembly - Htr Wtr Control (1)(4)											
Fuel Tank	X	X	X	X	X	X	X	X	X	X	X
Fuel Tank Filler Pipe				X	X	X	X	X			X
Fuel Tank Sender and Outlet Tube Assembly											
Fuel Delivery Module O-Ring Gasket											
Fuel Tube						X					
High Pressure Fuel Pump	X	X	X	X	X	X	X	X	X	X	
Intake Manifold	X	X	X	X	X	X					X
Exhaust Manifold (Right Hand)		X	X		X	X	X	X			
Exhaust Manifold (Left Hand)		X	X		X	X	X	X			X
Intake Manifold Gasket	X	X	X					X			
Intake Manifold Gasket LH	X										
Exhaust Manifold Gasket	X	X	X	X	X	X	X	X	X	X	
Flat/Ring Exhaust Gasket					X	X				X	
Air Cleaner Assembly (ACL)				X	X	X	X	X		X	
Fuel Tank Shield		X	X	X	X	X	X	X			X
Fuel Tank Sender											
Fuel Line Assembly Fuel Supply											
High Pressure Fuel Injector Pump											
Fuel Injector Tube Return Line											
Fuel Tank Shield									X	X	
Fuel Filler Kit											
Fuel Vapor Tube and Hose Assembly											
Fuel Tank Pressure Sensor				X	X	X	X	X			
Leak Detection Pump		X				X				X	
Fuel Pump Retaining Lock Ring											
Fuel Injection Fuel Supply Manifold Assembly	X	X	X	X	X	X	X	X	X	X	X
Fuel Tube Return Line to Tank End											
Pump Electronic Module (PEM) Fuel Pump											
EGR Valve Assembly											
Carbon Canister and Bracket Assembly				X	X	X	X	X			
Rear Vapor Line Assembly Tank to Vapor Blocking Valve (VBV)	X	X	X								
Fuel Injector Wiring Harness (4)							X				
Fuel Vapor Hose											X

Part Description	3.0L Explorer (3)	3.3L Hybrid Explorer	3.3L Explorer	2.7L F-150 (3)	3.5L F-150 (3)	3.5L Hybrid F-150	5.0L F-150	5.2L F-150	2.0L Maverick (3)	2.5L Hybrid Maverick	2.3L Mustang (3)
Fuel Injector Assembly											
Air Intake Throttle Body				X	X	X	X	X			X
Fuel Tube Assembly				X	X	X	X	X			
Universal Exhaust Gas Oxygen Sensor (UEGO)	X										
EGR Tube to Manifold Connector		X	X		X	X					
Fuel Injector	X	X	X	X	X	X	X	X	X	X	
Fuel Injector Fuel Supply Manifold	X	X	X	X	X	X	X				
Fuel Injector Charge Assembly	X	X	X	X	X	X	X		X		
Injection Pressure Sensor	X	X	X	X	X	X					
Fuel Distrib											
Up-Pipe (RH) Single Wall											
Turbocharger									X		X
Turbocharger Actuator Kit				X	X	X			X		X
Low Pressure Fuel and Temperature Sensor				X							
Direct Fuel Injector	X		X	X	X		X		X		
Fuel Delivery Module	X	X	X	X	X	X	X	X	X	X	X
Intake Manifold Connector		X	X								
Fuel Injector Kit											
Fuel Tube Supply	X	X	X	X	X	X	X	X		X	X
Fuel Supply Line Tank to Bundle	X	X		X	X	X	X	X	X	X	X
Sensor to Rail Fuel Line	X		X	X	X	X	X	X	X		
Fuel Pump to Fuel Rail Tube	X	X	X	X	X	X	X		X		
EGR Pressure Sensor	X			X	X	X	X	X			
Tank Assembly (without straps)				X	X	X	X	X			X
Turbocharger Control Solenoid											
Intake Manifold Lower		X	X								
Exhaust/Emission Control Wire Assembly (4)											
Holder and Nozzle Assembly Fuel Injector											
Fuel Tube Assembly											
Exhaust to Turbo Gasket					X	X					
Turbo Exhaust Adapter											
Compressor Bypass Valve											
EGR Outlet Temperature Sensor				X							
EGR Cooler											

(1) For Plug-in Hybrid Vehicles Only

(2) For Service Engine Soon/Malfunction Indicator Lamp (MIL) Functionality Concerns Only

(3) For EcoBoost Engine Only

(4) For MIL Illumination Only

(5) For Non-EcoBoost Engine Only

"COVERAGE FOR 2025 MODEL VEHICLES (GVWR OF 14,000 LBS. OR LESS) UNDER LONG TERM DEFECTS WARRANTY APPLICABLE ONLY TO CALIFORNIA-CERTIFIED VEHICLES REGISTERED IN A STATE THAT HAS ADOPTED AND IS ENFORCING CALIFORNIA EMISSION WARRANTY REGULATIONS (Coverage for up to 7 years/70,000 miles, whichever first occurs)"

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
Instrument Cluster (2)	X	X	X	X	X			X	X	X	X
Active Grill Shutter Actuator											
Battery Energy Control Module											
On-Board Battery Charger (1)											
High Voltage Tranction Battery											
Battery Integrated Starter Generator											
CS Sensor Ring						X	X				
Powertrain Control Wiring Harness (4)	X	X	X	X	X			X			X
Ambient Air Temperature Sensor											
Sensor Coolant Temp				X	X						
Powertrain Control Module (PCM) / Engine Control Module	X	X	X	X	X	X	X	X	X	X	X
Knock Sensor (KS)				X	X						
Exhaust Gas Temperature Sensor Assembly											
Engine Control Sensor & Fuel Charge Wrng Assy (4)								X			
Wire Assembly - Engine Control and Sensors (4)			X	X							X
Rear Lamp Connection Wire Harness (4)											
Dash Panel & Headlamp Junction Wiring (4)	X	X	X	X	X	X	X				
Battery Harness (4)	X	X				X	X				
Interior Wiring Assembly (4)			X	X	X	X	X	X	X	X	X
Roof Wiring Harness (4)						X	X	X	X	X	X
Main Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Rear Lamp Wiring Assembly (4)			X	X	X			X	X	X	
Fuel Sender Wiring Assembly (4)						X	X	X	X	X	X
Fuel Tank Jumper Harness								X	X	X	
Fuse Assembly (4)											
Main Body Wiring Harness (4)	X	X	X	X	X	X	X	X	X	X	X
HVEDS Charge Port Harness											
Main Jumper Wiring Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Molded Lead Frame Wiring Harness (4)			X	X	X	X	X		X		
Transmission Harness Connector (4)	X	X	X	X	X			X	X	X	
Battery Harness/ Engine Wiring Assembly (4)											
DCDC Converter and Bracket Assembly											
Inductor											
Gateway Module	X	X	X	X	X	X	X	X	X	X	X
ISC and Bracket Assembly											
Transmission Harness Connector											
Body Control Module (BCM)						X	X				
Valve Assembly - Htr Wtr Control (4)											
Pump Assembly Htr (1)(4)-CAC Pump		X									

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
EGHR-Exhaust Gas Heat Recovery											
A/C Compressor											
CONDENSER - A/C											
CONDENSER - A/C											
A/C Condenser											
Condenser to Evaporator Tube											
A/C Expansion Valve											
A/C Evaporator Assembly											
REFRIGERANT HOSE/ACCUM - A/C											
A/C Compressor to Condenser Tube											
Refrigerant Line-A/C											
REFRIGERANT - A/C											
A/C Accumulator Assembly											
Switch-A/C Pressure											
COMPRESSOR - A/C											
COMPRESSOR - A/C											
Core & SE Asy-A/C Evp											
Brake Vacuum Pump (1)								X			
ABS Module											
ABS Electronic Control Module (4)	X										
Power Steering Wiring Assembly (4)						X	X	X	X	X	
Shims											
Bearing on the differential											
Bearing Race											
Bearing on the differential											
Underbody Catalyst and Cold End Assembly Active Exhaust Valve	X										
Catalyst Inlet Pipe										X	X
Active Exhaust Valve					X						
EGHR-Exhaust Gas Heat Recovery											
Top assembly Cold End Exhaust					X						
Exhaust to Turbo Gasket				X	X						
Catalytic Converter	X	X	X	X	X	X	X	X	X	X	X
Catalytic Converter											
Catalytic Converter				X	X	X	X				
Catalytic Converter and Pipe						X	X	X	X	X	
Exhaust Manifold & Catalyst Assembly	X										
Diesel Particulate Filter Assembly								X			
Catalyst and Particulate Filter Assembly								X			
DEF Tank								X			
Reductant Pump Assembly								X			
DEF Quality Sensor								X			
DEF Pressure Line								X			

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
DEF Tank								X			
NOX Module, NOX Sensor Assembly								X			
Reductant Heater and Sender Asy								X			
Cylinder head								X			
Piston								X			
Camshaft								X			
Camshaft Timing Assembly	X	X	X	X	X	X	X	X	X	X	X
Adjuster Assembly - Valve Lifter (4)	X	X	X	X	X	X	X	X	X	X	X
Exhaust Valve								X			
Intake Valve								X			
Valve Spring								X			
Arm Assembly - Valve Rocker (4)	X	X	X	X	X			X	X	X	X
Valve Rocker Cover Assembly (RH, LH)	X	X	X	X	X	X	X	X			X
Oil Pump Assembly (4)	X	X		X	X	X	X	X	X	X	X
Crankshaft Position Sensor (CKP)							X	X			
Variable Camshaft Timing Assembly	X	X	X	X	X	X	X				
Duct, Charge Air Cooler Hot											
Supercharger Assembly		X									
Charge Air Cool Tube Assembly Inlet				X	X						
Charge Air Cool Tube Assembly Outlet											
Turbocharger Control Valve (Supercharger Bypass Actuator)								X			
Cylinder Head Temperature Sensor				X	X						
Solenoid Assembly (4)											
Camcover Gasket	X		X	X	X			X	X	X	X
Turbocharger			X	X	X		X	X			
Charge Air Cooler		X					X	X			
Catalytic Converter Gasket								X			
Engine Variable Camshaft Timing Solenoid	X	X	X			X	X		X	X	X
Exhaust Manifold and Turbo to Up-Pipe Gaskets								X			
Downpipe								X			
Gasket for Turbo Oil Tube			X			X	X	X	X	X	X
Transmission/ HPCM-Hybrid Powertrain Control Module (1)											
Transmission/Diff Assembly (4)	X	X									
Damper housing - trans case half											
Bearing											
Input shaft seal in Damper Hsg											
ISC Final Assembly (ISC+bracket)											
Back cover											
Oil flow funnel											
Filter											
Transmission Control Assembly (4)	X	X	X	X	X	X	X	X	X	X	X
Transmission Auxiliary Oil Pump (1)											

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
Ring gear											
Park Pawl											
Planetary Gear Assembly											
Inverter System Controller (1) (4)											
Splash Cover/ Vent Plate											
Gasket ISC											
INDUCTOR BOLT -DOWEL PIN											
Transmission Harness Connector (4)	X	X		X	X			X	X	X	
Park spring											
Pawl Shaft											
Bearing											
Rod Park											
PRK ABUT BRKT-Park component											
Transmission Range Sensor Assembly	X	X									
Gear											
Final Drive Ring Gear											
Ring & Diff Assembly											
Park Rod ABUT											
Transmission Torque Clutch Solenoid Assembly (4)	X	X				X	X	X	X	X	
Transmission Internal MLF Wiring Harness (4)						X	X	X	X	X	X
Ring -Snap ring											
Pressure Regulator Sensor	X	X				X	X	X	X	X	
Transmission Solenoid Assembly											
Pressure Regulator Solenoid Assembly						X	X				
Gear - pump drive											
Output Shaft Speed (OSS) Sensor						X	X		X		
Transmission Fluid Temperature (TOT) Sensor	X	X				X	X	X	X	X	
Axle Seal All Wheel Drive											
Stator - Large Traction											
Bearing											
Gear/ Shaft Assembly											
Transfer Shim											
Hub-Ring Gear											
Transmission Range Sensor / Detent Assembly	X		X	X	X	X	X	X	X	X	
Transmission Solenoid - 5R110W	X	X				X	X	X	X	X	
Bearing											
Stator- Small Gen											
Magnet -debris collection											
Turbine/Input Shaft Speed (TSS) Sensor Assembly						X	X		X		
Gen Rotor Assembly with bearings and cup plug											
Rotor w/Brg											
Aux Pump											

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
Emotor Front Module											
Park System Module											
Transfer Shaft											
Internal Seal											
Transmission Control Module (TCM) Assembly											
Seal on end cover of rotors											
Active Grill Shutters	X										
Thermostat Assembly											
Valve Assembly - Htr Wtr Control (1)(4)											
Fuel Tank	X	X	X	X	X	X	X		X	X	X
Fuel Tank Filler Pipe	X	X	X	X	X						
Fuel Tank Sender and Outlet Tube Assembly											
Fuel Delivery Module O-Ring Gasket											
Fuel Tube		X			X						
High Pressure Fuel Pump			X	X	X	X	X		X	X	X
Intake Manifold	X	X		X		X	X		X	X	X
Exhaust Manifold (Right Hand)	X	X				X	X	X	X	X	X
Exhaust Manifold (Left Hand)	X	X				X	X	X	X	X	X
Intake Manifold Gasket											X
Intake Manifold Gasket LH											
Exhaust Manifold Gasket	X	X	X	X	X	X	X	X			
Flat/Ring Exhaust Gasket				X	X	X	X				
Air Cleaner Assembly (ACL)											
Fuel Tank Shield	X	X							X	X	
Fuel Tank Sender									X	X	
Fuel Line Assembly Fuel Supply									X	X	
High Pressure Fuel Injector Pump								X			
Fuel Injector Tube Return Line								X			
Fuel Tank Shield									X	X	
Fuel Filler Kit									X	X	
Fuel Vapor Tube and Hose Assembly											
Fuel Tank Pressure Sensor									X	X	X
Leak Detection Pump								X	X	X	
Fuel Pump Retaining Lock Ring											
Fuel Injection Fuel Supply Manifold Assembly	X	X	X	X	X	X	X	X			
Fuel Tube Return Line to Tank End									X	X	
Pump Electronic Module (PEM) Fuel Pump											
EGR Valve Assembly								X			
Carbon Canister and Bracket Assembly			X	X	X	X	X		X	X	X
Rear Vapor Line Assembly Tank to Vapor Blocking Valve (VBV)											
Fuel Injector Wiring Harness (4)	X										
Fuel Vapor Hose	X	X									

Part Description	5.0L Mustang	5.2L Mustang	2.3L Ranger (3)	2.7L Ranger (3)	3.0L Ranger (3)	3.5L Transit	3.5L Transit (3)	6.7L Diesel Super Duty	6.8L Super Duty	7.3L Super Duty	7.3L Econoline
Fuel Injector Assembly								X			
Air Intake Throttle Body	X	X									
Fuel Tube Assembly											
Universal Exhaust Gas Oxygen Sensor (UEGO)											
EGR Tube to Manifold Connector						X					
Fuel Injector	X	X	X	X	X	X	X	X			
Fuel Injector Fuel Supply Manifold	X	X				X					
Fuel Injector Charge Assembly	X			X		X	X				
Injection Pressure Sensor				X							
Fuel Distrib											X
Up-Pipe (RH) Single Wall								X			
Turbocharger			X					X			
Turbocharger Actuator Kit			X		X			X			
Low Pressure Fuel and Temperature Sensor				X	X	X					
Direct Fuel Injector	X		X	X	X	X					
Fuel Delivery Module	X	X	X	X	X	X	X		X	X	X
Intake Manifold Connector											
Fuel Injector Kit								X			
Fuel Tube Supply	X	X	X	X	X	X	X		X	X	X
Fuel Supply Line Tank to Bundle	X	X	X	X	X	X	X		X	X	
Sensor to Rail Fuel Line											
Fuel Pump to Fuel Rail Tube	X		X	X	X	X	X				
EGR Pressure Sensor				X	X						
Tank Assembly (without straps)	X	X	X	X	X						X
Turbocharger Control Solenoid							X				
Intake Manifold Lower						X	X				
Exhaust/Emission Control Wire Assembly (4)						X	X				
Holder and Nozzle Assembly Fuel Injector								X	X	X	
Fuel Tube Assembly											X
Exhaust to Turbo Gasket							X				
Turbo Exhaust Adapter							X				
Compressor Bypass Valve											
EGR Outlet Temperature Sensor				X							
EGR Cooler								X			

(1) For Plug-in Hybrid Vehicles Only  
(2) For Service Engine Soon/Malfunction Indicator Lamp  
(MIL) Functionality Concerns Only

(3) For EcoBoost Engine Only  
(4) For MIL Illumination Only  
(5) For Non-EcoBoost Engine Only

## **Important Information about List of Parts**

There may be additional coverage for these parts through the Bumper to Bumper, Powertrain, or Diesel Engine limited warranties. In any case, the warranty with the broadest coverage applies.

Ford will cover damages to other vehicle components proximately caused by a failure under warranty of any warranted part.

Also covered by this warranty are all emissions-related bulbs, hoses, clamps, brackets, tubes, gaskets, seals, belts, connectors, non diesel fuel lines, and wiring harnesses that are used with components on the list of parts above.

Concerning parts that should be replaced on a certain maintenance schedule: these parts remain under warranty until the first required replacement time that is specified in your **Owner's Manual**.

**NOTE:** If the diagnosis does not reveal a defect, the Defects Warranty does not apply.

Your Ford Motor Company dealer maintains a complete list of covered parts. For more details about the specific parts that are covered by the Defects Warranty, contact your dealer.

### **WHAT IS NOT COVERED?**

Ford Motor Company may deny you emissions warranty coverage due to abuse, neglect, improper maintenance, or unapproved modifications.

## 7. Additional information about your emissions warranty coverage, under Federal and California requirements

### HOW DO I GET WARRANTY SERVICE?

To get service under your emissions warranties, take your vehicle to any Ford Motor Company dealer as soon as possible after illumination of the Malfunction Indicator Light or it has failed an EPA-approved test or a California Smog Check inspection. Be sure to show the dealer the document that says your vehicle has failed the test.

Your dealer will determine whether the repair is covered by the warranty. If the dealer has a question about Emissions Performance Warranty coverage, it will forward the question to Ford Motor Company, which must make a final decision within 30 days after you bring your vehicle in for repair. (The decision will be made within a shorter time if state, local, or federal law requires you to have the vehicle repaired more quickly in order to avoid additional penalties.) The deadline for a determination about Emissions Performance Warranty Coverage does not need to be met if you request a delay, agree to a delay in writing, or if the delay is caused by an event for which neither Ford nor your dealer is responsible. If a question about Emissions Performance Warranty coverage is referred to Ford Motor Company, you will be notified by Ford Motor Company in writing if your claim for warranty coverage is denied. The notice will explain the basis for denying your claim. If you fail to receive this notice within a timely manner, as determined above, Ford will perform the warranty repair for you free of charge.

### HOW DO I HANDLE EMERGENCY REPAIRS?

If your vehicle needs an emergency warrantable repair and a Ford Motor Company dealer is not available, or if a Ford Motor Company dealer cannot perform warrantable repair(s) within 30 days of you bringing your vehicle to the dealer, repairs may be performed at any service establishment or by you using Ford equivalent replacement parts.

Ford will reimburse you for the cost of these warranty repairs including diagnosis, if you take the part(s) that are replaced and the repair receipt(s) to a Ford Motor Company dealer. The reimbursement shall not exceed Ford's suggested retail price for the warranted parts that are replaced and labor charges based on Ford's recommended time allowance for the warranty repair and the geographically appropriate hourly rate.

#### **WHAT REPLACEMENT PARTS SHOULD I USE?**

Ford Motor Company recommends that you use genuine Ford replacement parts. However, when you are having non-warranty work done on your vehicle, you may choose to use non-Ford parts. If you decide to use non-Ford parts, be sure they are equivalent to Ford parts in performance, quality, and durability. If you use replacement parts that are not equivalent to Ford parts, your vehicle's emissions control systems may not work as effectively, and you may jeopardize your emissions warranty coverage.

Under the Federal and California emissions warranties, Ford will repair or replace covered parts if they are properly installed Ford parts or the equivalent, or non-Ford parts that have been certified by the U.S. EPA or the California Air Resources Board (CARB). Ford is not responsible for the cost of repairing or replacing non-Ford parts that are not equivalent to Ford parts or that have not been certified by EPA or CARB.

The maintenance, replacement, or repair of emissions control devices or systems can be performed by any automotive repair establishment or individual using Ford replacement parts or the equivalent, or EPA- or CARB-certified parts, without voiding your emissions warranty coverage for future repairs during the applicable warranty period.

## **PROPER MAINTENANCE PRESERVES YOUR WARRANTY**

If you do not maintain your vehicle properly, Ford may have the right to deny you warranty coverage.

To have repairs made under this warranty, you may have to show that you have followed Ford's instructions on properly maintaining and using your vehicle. You will find these instructions in your **Owner's Manual**. Be sure to save your service receipts and to keep accurate records of all maintenance work.

## **CUSTOMER ASSISTANCE**

If you are not satisfied with the handling of a warranty matter, see **Customer Assistance**, on the inside front cover, and **Better Business Bureau (BBB) AUTO LINE** program, page 65.

## 8. Noise emissions warranty

### NOISE EMISSIONS WARRANTY FOR CERTAIN LIGHT TRUCKS

Ford Motor Company warrants to the first person who purchases this vehicle for purposes other than resale and to each subsequent purchaser that this vehicle as manufactured by Ford, was designed, built and equipped to conform at the time it left Ford's control with all applicable U.S. EPA Noise Control Regulations.

This warranty covers this vehicle as designed, built and equipped by Ford Motor Company, and is not limited to any particular part, component or system of the vehicle as manufactured by Ford. Defects in design, assembly or in any part, component or system of the vehicle as manufactured by Ford, which, at the time it left Ford's control, caused noise emissions to exceed Federal standards, are covered by this warranty for the life of the vehicle.

### THE NOISE EMISSIONS WARRANTY OBLIGATIONS DO NOT APPLY TO:

- loss of time, inconvenience, loss of use of the vehicle, commercial loss or other consequential damages.
- any vehicle which is not covered by the U.S. EPA Medium and Heavy Trucks Noise Emission Standards (40 C.F.R. Part 205, Subpart B). Among the non-covered vehicles are those lacking a partially or fully enclosed operator's compartment, such as a basic stripped chassis, those having a Gross Vehicle Weight Rating of 10,000 pounds or less, and those sold outside the United States and its territories. To the extent permitted by law, THIS WARRANTY IS EXPRESSLY INSTEAD of any express or implied warranty, condition, or guarantee, agreement, or representation, by any person with respect to conformity of this vehicle with the U.S. EPA Noise Control Regulations, including ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS.

## 9. Ford Protect Extended Service Plan

### MORE PROTECTION FOR YOUR VEHICLE

You can get more protection for your new car or light truck by purchasing a Ford Protect. Ford Protect service contracts are backed by Ford Motor Company or Ford Motor Service Company. Ford Protect plans provide up to 8 years and 150,000 miles of coverage.

They provide:

- benefits during the warranty period, depending on the plan you purchase can be: reimbursement for a rental vehicle, protecting against tire and wheel road hazard damage, coverage for certain maintenance and wear items, lost key replacement, other plans are available;
- protection against covered repair costs and continuing Roadside Service Assistance benefits after your Bumper to Bumper Warranty expires.

You may purchase Ford Protect from any Ford Motor Company dealer or see our website at [fordprotect.ford.com](http://fordprotect.ford.com). There are several Ford Protect plans available in various time, distance and deductible combinations. Each plan is tailored to fit your own driving and vehicle ownership needs, including reimbursement for towing and rental.

When you purchase Ford Protect, you receive peace-of-mind protection throughout the United States, Canada and Mexico, provided by a network of more than 3,200 Ford Motor Company dealers.

**NOTE:** Repairs performed outside the United States, Canada, Mexico, Guam or Puerto Rico, Virgin Islands, American Samoa and District of Columbia are not eligible for Ford Protect coverage.

This information is subject to change. Ask your dealer for complete details about Ford Protect coverage.

## 10. The Better Business Bureau (BBB) AUTO LINE Program (U.S. Only)

Your satisfaction is important to Ford Motor Company and your dealer. If you are not satisfied with the resolution of a warranty concern, we recommend you follow the three-step resolution procedure outlined in this Warranty Guide. You may also be eligible to participate in the BBB AUTO LINE program whether or not you follow this three-step procedure.

The BBB AUTO LINE program consists of two parts — mediation and arbitration. During mediation, a representative of the BBB will contact both you and Ford Motor Company to explore options for settlement of the claim. If an agreement is not reached during mediation and your claim is eligible, you may participate in the arbitration process. An arbitration hearing will be scheduled so that you can present your case in an informal setting before an impartial person. The arbitrator will consider the testimony provided and make a decision after the hearing.

You are not bound by the decision, but should you choose to accept the BBB AUTO LINE decision, Ford must abide by the accepted decision as well. Disputes submitted to the BBB AUTO LINE program are usually decided within forty days after you file your claim with the BBB.

**BBB AUTO LINE Application:** Using the information provided below, please call or write to request a program application. You will be asked for your name and address, general information about your new vehicle, information about your warranty concerns, and any steps you have already taken to try to resolve them. A Customer Claim Form will be mailed that will need to be completed, signed, and returned to the BBB along with proof of ownership. Upon request, the BBB will review the claim for eligibility under the Program Summary Guidelines.

You can get more information by calling BBB AUTO LINE at 1-800-955-5100, or writing to:

**BBB AUTO LINE**  
1676 International Drive, Suite 550  
McLean, VA 22102

BBB AUTO LINE applications can also be requested by calling the Ford Motor Company Customer Relationship Center at 1-800-392-3673.

**NOTE:** Ford Motor Company reserves the right to change eligibility limitations, modify procedures, or to discontinue this process at any time without notice and without obligation.

## 11. State warranty enforcement laws

These state laws - sometimes called “lemon laws” - allow owners to receive a replacement vehicle or a refund of the purchase price, under certain circumstances. The laws vary from state to state.

To the extent your state law allows, Ford Motor Company requires that you first send us a written notification of any defects or non-conformities that you have experienced with your vehicle. (This will give us the opportunity to make any needed repairs before you pursue the remedies provided by your state’s law.)

In all other states where not specifically required by state law, Ford Motor Company requests that you give us the written notice. Send your written notification to:

**Ford Motor Company  
Customer Relationship Center  
P.O. Box 6248  
Dearborn, MI 48126**

## 12. Important information about ambulance conversions

Ford vehicles are suitable for producing ambulances only if equipped with the **Ford Ambulance Prep Package**. In addition, Ford urges ambulance manufacturers to follow the recommendations of the Ford Incomplete Vehicle Manual and the Ford Truck Body Builders Layout Book (and pertinent supplements).

**Using a Ford vehicle without the Ford Ambulance Prep Package to produce an ambulance could result in elevated underbody temperatures, fuel over pressurization, and the risk of fuel expulsion and fires. Such use also voids the Ford Bumper to Bumper Warranty and may void the Emissions Warranties.**

You may determine whether the vehicle is equipped with the **Ford Ambulance Prep Package** by inspecting the information plate on the driver's rear door pillar.

You may determine whether the ambulance manufacturer has followed Ford's recommendations by contacting the ambulance manufacturer of your vehicle.



Buy America Documentation

FR Conversions  
Court

1231 Tech  
Westminster, MD  
21157

Item	Description	Subassembly	Description	Lower Level Assembly	Description	Manufacturer
		<b>Passenger Conversion</b>	MVSS ADA Compliant			FR Conversions
				CONVERSION-TRANSIT-350-02	STANDARD MOBILITY CONVERSION FOR 148" FORD TRANSIT 350 WAGON REAR ENTRY UPFIT INCLUDES MOBILITY FLOOR PREP FOR REAR ENTRY LIFT PLACEMENT	FR Conversions
				100278-12-XXXX	FORD TRANSIT 250/350 PASSENGER VAN W/REAR LIFT FLOOR ASSEMBLY	FR Conversions
				OP-F-00003-23	BRAUNABILITY CENTURY 2 SERIES (NCL919FIB-2) 34.0 IN RIGHT HAND MOTOR	PARETO
				OP-F-00004-03	WHEELCHAIR LIFT FOR FORD TRANSIT REAR ENTRY TRANSMISSION INTERLOCK FOR BRAUN WHEELCHAIR LIFT FOR FORD TRANSIT 2020-2021 YEAR MODEL	LGS Group
				OP-F-00021-01	STANDARD Q-8200-A-L - PILLAR MOUNTED - Q-STRAINT RETRACTABLE SYSTEM WITH SHOULDER BELT (MANUAL RETRACTOR - 1 TENSIONING KNOB) WITH MANUAL LAP AND SHOULDER BELT. WARNING: DO NOT USE WITH WALL MOUNTED L TRACKS - (USE OP-F-00021-04 IF WALL MOUNTED L TRACKS ARE SELECTED)	Q'Straint
				OP-F-00021-05	WALL POUCH - HEAVY DUTY - INSTALLED TO THE VEHICLE - Q-STRAINT	Q'Straint
				OP-F-00005-01	SINGLE, RIGID, HIGH BACK, 16 IN, LEFT HAND BELT LEVEL 1, OXEN BLACK, FREEDMAN	Freedman
				OP-F-00005-11	DOUBLE, FOLDAWAY, STREET SIDE, 3-POINT, LEVEL 1 OXEN BLACK VINYL, FREEDMAN	Freedman
				OP-F-00045-01	911 EMERGENCY DOT KIT INCLUDES: 5LB FIRE EXTINGUISHER (INSTALLED), 25 PERSON FIRST AID KIT, ROAD TRIANGLES	District Sagfety
				OP-F-00046-01	SURE-LOK SINGLE OXYGEN BOTTLE HOLDER (SL-5420) (INSTALLATION INCLUDED)	Surelok
				OP-F-00049-01	BELT CUTTER	FR Conversions
				OP-F-00002-15	ALUMINUM RUNNING BOARDS SET (1 EA. DRIVERS & PASSENGERS SIDES) FORD TRANSIT 10" EXTRA WIDE BLACK POWDER COAT (INSTALLATION INCLUDED)	FR Conversions
				OP-F-00044-01	BACKUP ALARM ELECTRICAL INSTALLATION INCLUDED 107 DB OUTPUT, 12 VOLT DC OPERATION , WATERPROOF , STAINLESS STEEL TERMINALS , CONFORMS TO SAE J994	FR Conversions
				OP-F-00001-05	GRAB RAIL FORD TRANSIT (INSTALLED IN FORD TRANSIT SIDE INSTALLATION)	FR Conversions
					Direct final assembly labor (not counted towards buy America)	FR Conversions

Top level Assembly Country of Origin	Total Value	% of Total	Sub-Components Percentage Buy America Compliant	Precent of Total Compliant
United States	\$ 20,082.00	100.00%	92.99%	92.99%
Westminster MD	\$ 5,583.00	27.80%	94.16%	26.18%
Westminster MD	\$ 5,052.76	25.16%	100.00%	25.16%
Winamac IN	\$ 5,650.00	28.13%	97.14%	27.33%
Reno NV	\$ 565.00	2.81%	100.00%	2.81%
Atlanta GA	\$ 814.00	4.05%	100.00%	4.05%
Atlanta GA	\$ 95.00	0.47%	77.91%	0.37%
Chicage IL	\$ 1,196.00	5.96%	98.16%	5.85%
Chicage IL	\$ 3,360.00	16.73%	98.16%	16.42%
Centerville VA	\$ 280.00	1.39%	85.01%	1.19%
Atlanta GA	\$ 392.00	1.95%	100.00%	1.95%
Westminster MD	\$ 20.00	0.10%	100.00%	0.10%
Westminster MD	\$ 1,510.00	7.52%	92.71%	6.97%
Westminster MD	\$ 112.00	0.56%	62.54%	0.35%
Westminster MD	\$ 98.00	0.49%	90.64%	0.44%
Westminster MD	\$ 981.70	4.89%	0.00%	0.00%
	\$ 19,675.00			92.99%

530.24

161.39

20.98

22

44

41.96

110

41.96

9.17

## **POLICY STATEMENT**

Section 26.1, 26.23

Objectives / Policy Statement

### **FY 2025 Policy Statement and Objectives at FR Conversions Inc. for its Disadvantaged Business Enterprise (DBE) Program**

FR Conversions Inc., (FR) an established Disadvantaged Business Enterprise (DBE) Program in accordance with regulations of the U.S. Department of Transportation (DOT), 49 CFR Part 26.

The company anticipates continuing to bid on municipal transportation agency contracts that are funded in whole or in part by the DOT through federal financial assistance programs. Under its Transit Vehicle Certification (TVM) with the DOT, it is the company's policy to ensure that DBEs (as defined by 49 CFR Part 26) have an equal opportunity to receive and participate in DOT-assisted contracts that are awarded on its behalf.

The FY 2025 DBE Goal for FR Conversions Inc., based in Westminster, MD is **1.15%**.

#### **DBE Suppliers Needed**

FR Conversions is actively seeking suppliers and subcontractors qualified as DBEs to supply quality component parts, raw materials and subcontracted services at competitive wholesale and fair market prices. DBE proof of certification is required in the DBE's respective state. Interested suppliers please contact the company at (844) 372-8267.

#### **Additional Policy Parameters:**

1. To ensure nondiscrimination in the award and administration of DOT-funded contracts.
2. To create a level playing field on which DBEs can compete fairly to supply parts, materials and subcontracted services for DOT-funded contracts.
3. To ensure that the DBE program is narrowly tailored in accordance with applicable law.
4. To ensure compliance that only firms that meet 49 CFR Part 26 eligibility standards are permitted to participate as DBEs.
5. To help remove barriers to participation of DBEs in DOT-funded contracts.
6. To assist the development of firms that can compete successfully in the marketplace outside of the DBE program.
7. To provide appropriate flexibility to recipients of federal financial assistance programs in establishing and providing opportunities to DBEs.

The current DBE Liaison Officer at FR Conversions is Aaron Alexander. In this role, Mr. Alexander manages all aspects of the DBE program for the company. Implementation of the DBE program is accorded the same priority as compliance with all other legal obligations incurred by the company in its DOT-assisted agreements.

FR Conversions has disseminated this policy statement throughout its entire organization and will also distribute written notification of the same policy to both DBE and non-DBE businesses that perform work for the company on DOT-assisted contracts.

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Aaron Alexander  
Vice President of Supply Chain / DBELO

November 14, 2024



U.S. Department  
of Transportation

**Federal Transit  
Administration**

Chief Counsel

1200 New Jersey Avenue, SE  
Washington, DC 20590

**JUN - 8 2017**

Mr. Kish Johnson  
Corporate Sales Associate  
FR Conversions Inc.  
1231 Tech Ct  
Westminster, MD 21157

Re: Final Assembly Determination

Dear Ms. Johnson:

I write in response to your April 3, 2017, request for a determination by the Federal Transit Administration (“FTA”) as to whether the process that FR Conversions (“FRC”) undertakes to convert minivans, such as the Dodge Caravan, into wheelchair-accessible vehicles are sufficient to meet the Buy America requirements for final assembly under 49 C.F.R. § 661.11. For the reasons set forth below, I find that FRC’s conversion processes consist of sufficient manufacturing activities to conclude that these activities meet the final assembly requirements under 49 C.F.R. § 661.11.<sup>1</sup>

#### **I. FRC’s Final Assembly Processes**

FRC has a 155,000-square foot production facility located in Westminster, Maryland, where its conversion processes take place. In 2015, FRC converted 2,000 Dodge and Chrysler minivans at that production facility and hope to double that number of conversions by the end of 2017. Per FRC, the conversion process is divided into four parts: (1) Tear-Down; (2) Weld-in; (3) Finishing; and (4) Exhaust, Test-Drive, Final Inspection. Aside from the fourth stage, which is a final cleaning and testing of the finished product, each of the three prior stages involves multiple activities that substantially transform the original minivan into a wheelchair-accessible minivan and are completed at the Maryland facility.

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<sup>1</sup> This determination is limited to the final assembly requirements under Buy America for rolling stock. It does not cover the requirement that the cost of components produced in the United States meets the domestic content percentage in the Buy America statute. 49 U.S.C. § 5323(j)(2)(C)(i); 49 C.F.R. § 661.11(a). When calculating domestic material cost and whether it meets the specified threshold, the percentage of a specific component can only be determined by calculating the total costs of all of the components, i.e., the components provided in both lists. Also, please note that the cost of the final assembly activities may not be included in the calculation of the domestic content. 49 C.F.R. § 661.11(q).

- The “Tear-Down” process includes: removing the exhaust and fuel systems; rewiring the vehicle and disconnecting the battery; removing molding, panels, carpeting, seats, rear gasket, bumper covers, and the bumpers; grinding down the frame rails, and welding frame rails.
- The “Weld-In” phase includes: installing brackets, tub assembly, and frame rail reinforcements; removing grab bars; dropping the axle; welding and installing components for the frame rail; installing and welding seats, suspension reinforcement; installing the suspension system and fuel tank bolts; welding various plates; raising the axle; welding and installing the sway bar and Q-strait plates.
- The “Finishing” process entails coating the interior and exterior; grinding, sanding, and painting; coating all surfaces; reconnecting the battery, reinstalling seats, flooring, and carpeting; attaching the ramp; assembling the fuel tank; reinstalling the bumpers; and equipping the vehicle with a Q-strait harness.

Based upon the information provided above, FRC asserts that its conversion activities are sufficient to meet FTA’s Buy America regulations at 49 C.F.R. § 661.11 and Appendix D, and is requesting confirmation from FTA.

## **II. Buy America**

### **A. Legal Requirements for Buses and Railcars**

Under 49 U.S.C. § 5323(j)(1), FTA may not obligate funds for a project unless the steel, iron, and manufactured goods used in a project are produced in the United States. For rolling stock procurements, this requirement does not apply if the cost of the components and subcomponents produced in the United States is more than 60 percent of the cost of all components and final assembly takes place in the United States.<sup>2</sup> 49 U.S.C. § 5323(j)(2)(C); 49 C.F.R. § 661.11(a). Final assembly is defined as “the creation of the end product from individual elements brought together for that purpose through application of manufacturing processes.” 49 C.F.R. § 661.11(r).

To comply with Buy America, final assembly must take place in the U.S. As stated in Appendix D to Section 661.11, the minimum requirements for final assembly of transit rolling stock include:

In the case of a new bus, final assembly would typically include, at a minimum, the installation and interconnection of the engine, transmission, axles, including the cooling and braking systems; the installation and interconnection of the heating and air conditioning equipment; the installation of pneumatic and electrical systems, door

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<sup>2</sup> Effective October 1, 2015, the domestic content for rolling stock was increased from the current rate of more than 60 percent to more than 65 percent in FY2018 and FY2019 and more than 70 percent in FY2020 and beyond. For more information about FTA’s implementation of the phased increase in rolling stock, please consult FTA’s Policy Guidance Statement issued on September 1, 2016. 81 FR 60278 (Sept. 1, 2016). This document is available on FTA’s website at: <https://www.transit.dot.gov/regulations-and-guidance/buy-america/buy-america-policy-statements>.

systems, passenger seats, passenger grab rails, destination signs, wheelchair lifts; and road testing, final inspection, repairs and preparation of the vehicles for delivery.

Because these requirements constitute the typical final assembly requirements for conventional transit buses and do not specifically address the processes involved in converting a minivan for Americans with Disabilities Act accessibility, paragraph (c) of Appendix D permits a vehicle manufacturer to request an FTA determination of its compliance with the final assembly requirement, which FTA will conduct on a case-by-case basis.

### **B. Final Assembly Requirements for Minivans**

For the most part, FTA addresses only the typical final assembly requirements for buses and rail cars in its regulations and guidance documents, but generally does not cover minivans. *See, e.g.,* 49 C.F.R. § 611.11 app. D. With respect to wheelchair-accessible minivans that use a slide-door ramp, FTA has found that the following conversion activities collectively constitute final assembly as required by 49 C.F.R. § 661.11(a) and (r):

- (a) “Strip-Out”: consists of “removal of the front and rea[r] seating components ... interior wall and door panels, and all carpeting.”
- (b) “Seat Re-Engineering & Modifications”: consists of “remanufactured [front seats] to be easily removable for wheelchair access” and rear seats are “modified to permit forward folding for access to a kneeling system linear actuator and a proprietary vehicle slide door/ramp controller.”
- (c) “Subsystem Re-Engineering & Modifications”: installing new, longer, reconfigured rear brake, fuel, heat, and air conditioning and fuel lines.
- (d) “Fuel Tank System Re-Engineering & Modifications”: removal of the original fuel tank and charcoal canister from its mid-vehicle location, rotated, relocated, and reinstalled to aft of the rear axle location. The original fuel fill pipe assembly is removed and discarded and a “new, reconfigured fuel pipe assembly is installed to meet the relocated and rotated fuel tank.”
- (e) “Fabrication of Lowered Floor Unit Body”: fabrication of a new low floor unit body.
- (f) “Floor Re-Engineering & Modifications”: removal of the Original Equipment Manufacturer (OEM) floor and undercarriage from the toe pan to the rear axle, adding of a new aft rear axle fuel tank support structure, a new kneeling system actuator housing and structure, a new spare tire/storage tub, and a new lowered floor structure, and various body work to accommodate the new lowered floor structure.
- (g) “Exhaust Re-Engineering & Modifications”: removal of the heat shields, and installing a new reconfigured exhaust pipe, hanger brackets, and muffler.
- (h) “Engine/Transmission/Front Suspension Assembly Modifications”: disconnection from the vehicle and removed, but with the engine lines and hoses left attached. Modifications are made to the engine/transmission/front suspension assembly, such as adding various types of spacing brackets, custom steering shaft extension, and two engine cradle safety bracket tube extensions. The engine/transmission/front suspension assembly is then reinstalled. In addition, a

CARB compliant fuel system is installed, and the exhaust system and heat shields are installed as well.

- (i) “Slide Door Re-Engineering & Modifications”: removal of the slide doors and modifications made to accommodate a lowered floor/wheelchair ramp entrance. The doors are then reinstalled.
- (j) “Rear Axle & Suspension Re-Engineering & Modifications”: removal, modifications done to the sway bar mounting, and coil spring mounts, addition of a kneel chain bracket, and reinstallation of the rear axle.
- (k) “Flooring & Walls”: installation of a marine grade flooring substrate and covering and carpet or plastic panels with carpeted inserts. Walls are covered with new interior panels and trims.
- (l) “Rear Bumper Re-Engineering & Modifications”: involves removal of the rear bumper, reinforcing the rear bumper, and reinstalling it.
- (m) “Wiring Re-Engineering & Modifications”: reconfiguration of the seating systems and airbag systems, and modifications to accommodate the wheelchair ramp system, slide door operation, kneel function, and other accessibility modifications.
- (n) “Ramp”: installation of the manual or power wheelchair ramps.
- (o) “Paint & Undercoat”: newly installed components are painted and the entire floor is undercoated.
- (p) “Miscellaneous”: Among other things, the vehicle is inspected, weighed, and recertified by [the wheelchair minivan conversion manufacturer].<sup>3</sup>

### III. Discussion

Based on a careful review of FRC’s activities at the Westminster, Maryland facility and a comparison of the final assembly activities undertaken by similar minivan conversion companies, I conclude that FRC satisfies the Buy America final assembly requirements of 49 U.S.C. 5323(j)(2)(C)(ii) and 49 CFR 661.11.

FRC makes substantial changes to the interior and exterior of the minivan, including, among other things, adding a wheelchair ramp, installing a new lowered floor, and making modifications to and reinstalling the fuel system, suspension, and exhaust system. These activities result in an FRC minivan – a new and significantly different vehicle from the Dodge minivans. Accordingly, FRC’s manufacturing activities in the United States at its Maryland facility are sufficient to meet the final assembly requirements under 49 C.F.R. § 661.11(a) and (r), as a minivan that is converted for wheelchair accessibility.

### IV. Conclusion

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<sup>3</sup> Memorandum from Dorval R. Carter, Jr., Chief Counsel, FTA, on the determination as to whether the process by which the Braun Corporation (Braun) converts incomplete Chrysler minivans into Braun Entervans satisfies FTA’s Buy America requirements for final assembly to Peter M. Rogoff, Administrator, FTA 2-3 (June 28, 2013); see also Memorandum from Dorval R. Carter, Jr., Chief Counsel, FTA, on the determination as to whether the process by which EIDorado National-Kansas (EIDorado) converts incomplete Chrysler and Dodge minivans into EIDorado Amerivans satisfies FTA’s Buy America requirements for final assembly to Peter M. Rogoff, Administrator, FTA 2-3 (June 28, 2013).

Based upon the foregoing, I find that FRC's manufacturing activities meet the final assembly requirements under 49 C.F.R. § 661.11. This decision is limited solely to minivans that are converted for wheelchair accessibility by FRC and based upon FRC's asserted final assembly processes described herein. Deviation from these described processes may result in a different conclusion. Lastly, this decision does not cover the domestic content requirement under 49 U.S.C. § 5323(j)(2)(C)(i) and 49 C.F.R. § 661.11.

If you have any questions regarding this determination, please contact Richard Wong at (202) 366-0675, [Richard.Wong@dot.gov](mailto:Richard.Wong@dot.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Dana C. Nifosi". The signature is fluid and cursive, with the first name "Dana" being the most prominent.

Dana C. Nifosi  
Acting Chief Counsel

## 2025 Ford Transit Chassis Specifications

### EXTERIOR-

#### Paint

Oxford White Clear Coat

#### Appearance

Audio, Antenna - Fender Mounted

Body Side Moldings – Carbon Black

50/50 Hinged Rear Door, 253-degree Opening (Long and Extended Length configurations)

Sliding Passenger-Side Door

Front License Plate Bracket

Auto High-Beam Headlamps

Mirrors – Short-Arm — Power-Adjusting, Manual-Folding

Roof Marker Lamp Delete (SRW)

Rear Recovery Tow Hook

Honeycomb Mesh Grille with Carbon Black Surround

Halogen Headlamps with Autolamp

Floor Covering, Vinyl, Front & Rear

Glove Box (Locking)

Instrumentation – Tachometer, Fuel Level and Coolant Temperature

Interior Lighting

Lighting, Front Dome Lamp with Map Lights and Theater-Dimming

#### Protection

Windows-All-Around Fixed

Privacy Glass

### INTERIOR

#### Comfort & Convenience

Horn - Single-Note Electric

Inside Rearview Mirror

Headliner – Cloth Full length

Medium Center Console

Post-Collision Braking

Pre-Collision Assist With Automatic Emergency Braking (AEB)

Lane-Keeping System

Floor Covering, Vinyl, Front & Rear

Glove Box (Locking)

Instrumentation – Tachometer, Fuel Level and Coolant Temperature

Interior Lighting

Lighting, Front Dome Lamp with Map Lights and Theater-Dimming

A-Pillar Assist Handles

Two Auxiliary 12-Volt Powerpoints

PowerPoint,12V - One located in the rear of vehicle

USB Ports – 5 Amps

Sun Visors - with Illuminated Vanity Mirror (Driver and Passenger)

Automatic Rain-Sensing Windshield Wipers

B-Pillar Assist Handle (Passenger-side) - Handle is standard on Low Roof Cargo Van

Forward Collision Warning

Rearview Mirror (When Equipped with Rear Glass)

Headlamp Courtesy Delay

Ford Pro™ Telematics

Full Rear Compartment Lighting

## ENTERTAINMENT SYSTEMS

AM/FM Stereo with 4" Display, Bluetooth, and Dual USB Ports

## SEATING-Pewter Gray

Driver and Front-passenger Manual Reclining Bucket Seats with Adjustable Headrest (Includes Driver-Side and Passenger-Side Inboard Armrest)

## PACKAGES

Power Equipment Group (Power Locks and Windows) with Remote Keyless-Entry

## POWER & HANDLING

### *Handling*

Steering - Power Rack and Pinion

Electric Power-Assisted Steering (EPAS)

Steering Wheel, - Tilt & Telescopic Column Polyurethane 4-Spoke Wheel

Parking Brake - Mechanical (9,950lb GVWR DRW configurations only)

Suspension, Front - Independent MacPherson-Strut, Stabilizer Bar

Suspension, Rear - Leaf Springs, Heavy-Duty Gas Shock Absorbers

AdvanceTrac<sup>®</sup> With Roll Stability Control<sup>™</sup> (RSC<sup>®</sup>)

Side-Wind Stabilization

Hill Start Assist

Parking Brake – Electric (SRW configurations only)

Cruise Control. Includes Adjustable Speed Limiting Device (ASLD)

### *Power*

Alternator – 250 amp

Auxiliary Fuel Port

3.5L EcoBoost<sup>®</sup> V6 engine

10-Speed Automatic Transmission

Fuel Tank – Capless Fuel Fill, 25 Gallons (Midship)

Dual AGM Batteries-120 amp-hr

## WHEELS & TIRES

Tires, 235/65R16 BSW All-Season - (SRW)

16-Inch Silver Steel Wheel With Black Hubcap (SRW)

Wheels, Full-size Spare Tire and Wheel with 3-Ton Jack

## SAFETY

Tire Pressure Monitoring System (TPMS)

Airbags – Driver and Passenger

Brakes - 4 Brakes – 4-wheel Anti-lock Disc Brakes

Safety belts - 3-point, all positions

Safety Canopy<sup>®</sup> System with Side-Curtain Airbags

SOS Post-Crash Alert System™ (distress call w/airbag deployment when ordered with SYNC)

## SECURITY

Auto-locking Drive Away with Crash Unlocking

SecuriLock<sup>®</sup> Passive Anti-Theft System (PATS) with engine immobilizer

Rear View Camera With Trailer Hitch Assist

# Find A Warranty Shop

Find a Shop By State: VA (7) | ▼



VA

## Mastercraft Auto Body

📞 703-330-5405

📍 9203 Venture Ct, Manassas Park, VA 20111, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 434-202-1470

📍 1026 River Road, Charlottesville, VA 22901, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 540-343-3323

📍 930 3rd Street, Vinton, VA 24179, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 757-369-23692

📍 144 Freedom Blvd, Yorktown, VA 23692, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 703-393-9911

📍 Historic District, 12351 Randolph Ridge Lane, Manassas, VA 20109, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 804-751-0911

📍 13051 Redwater Drive, Chester, VA 23836, USA

[Get Directions](#)



VA

## Atlantic Emergency Solutions, Inc

📞 540-343-3323

📍 845 3rd Street, Vinton, VA 24179, USA

[Get Directions](#)



OH

**Atlantic Emergency Solutions, Inc**

 740-962-4328

 5255 Ohio 60, McConnellsville, OH, USA

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VULCAN™



**HYBRID  
COMPONENT**

- » Patented Hybrid Component™ modular design technology
- » Modular design with removable trays
- » Fully serviceable on site
- » Serviced in minutes, not days
- » Lowest long-term cost of ownership

# V1284HC

12-Channel Vulcan™ Series HD/IP Hybrid Component Mobile Digital Video Recorder



## V1284HC

- » 12 channels: 8 HD channels up to 1080P + 4 IP channels up to 1080P
- » (1) 3.5-Inch SATA Hard Drive up to 14TB
- » SD card slot for redundant recording
- » Vandal resistant, military grade housing
- » Built-in Wi-Fi module
- » H.264/H.265 compression
- » Patented Hybrid Component Technology
- » 5-year limited warranty
- » Engineered specifically for school transportation



## « TOTAL CONTROL



Diagnose and operate the V1284HC with the optional Vulcan CP4 Touchscreen Backing and Firmware Control Monitor. Using the monitor's 7-inch touchscreen display, with customized password protection, the user can view and update the MDVR's firmware and other settings and view recorded video. When the monitor is in live view mode, the user can select the number of channels displayed, depending on the number of cameras installed on the vehicle. In backing mode the monitor displays a live view of the vehicle's reverse camera, if applicable. This versatile tool also integrates SMS and voice broadcast to make calls, IP connections and two-way audio broadcasts.

## TOTAL EASE OF USE »

Video playback and archiving are simple with FlexPlay Pro 8™ software. With minimal clicks to login and view video recorded last, this user friendly tool also features an easy-navigation timeline and trouble-free archiving. FlexPlay Pro 8 is included with the purchase of every Vulcan MDVR.



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# V1284HC

For full specifications, visit [www.angeltrax.com](http://www.angeltrax.com)

## DRIVER-OPERATED PANIC BUTTON

Alerts, triggered by the driver-operated panic button or one of eight configurable alarms, automatically mark video for supervisor review during playback. The panic button, included with every Vulcan Series MDVR and installed within easy reach on the driver's console, is an inconspicuous tool the driver can use to mark the video at the time and date of an incident occurring on the vehicle. The panic button also functions as a remote status indicator for the MDVR. A solid green LED indicates the unit has power and is recording without using a video monitor.



## WARRANTY

We stand behind the Vulcan™ Series V1284HC by offering a five-year parts and labor warranty that is unmatched in the industry, and from first contact to warranty fulfillment, AngelTrax provides unparalleled customer service and support.

## ANGELTRAX SUPPORT

Reliable and efficient, our specialized team of engineers and technicians resolve most product issues during the initial phone call or email conversation. All customer service is conducted by AngelTrax and not outsourced to a third party.

CUSTOMER SERVICE



PRODUCT TRAINING



TECHNICAL SUPPORT



## TOTAL CAMERA COVERAGE

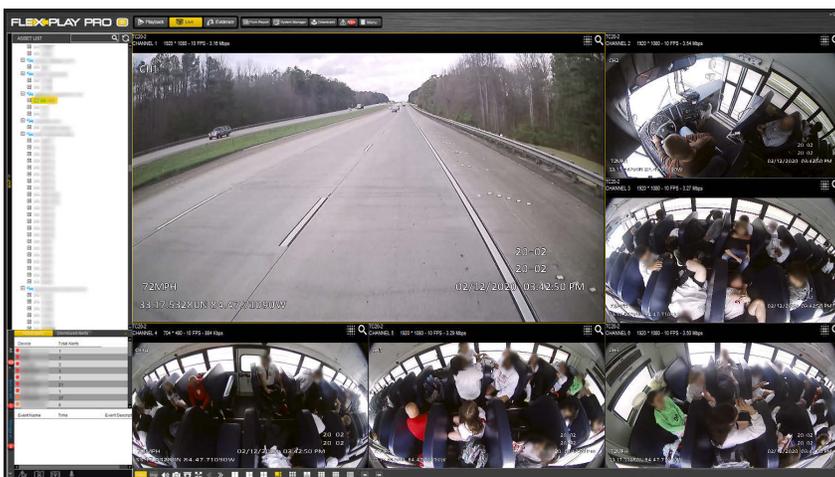
AngelTrax offers a full range of compatible interior and exterior cameras designed to capture vivid video near or far.



Ask your sales executive for more options.

## PRO 8 CMS™

Increase your reach and upgrade FlexPlay Pro 8 playback software to Pro 8 Central Management System™ to expand your capabilities exponentially.



### PRO8CMS FEATURES:

- » Monitor every move
- » Real-time surveillance and alerts
- » Access via Wi-Fi or cellular connection
- » Live view for all wirelessly connected Vulcan systems
- » System health alerts and panic button alerts sent automatically via text or email
- » Total control over your data
- » Comprehensive fleet reports
- » Entire fleet history at your fingertips
- » Enhanced playback controls
- » Total ease of use and navigation



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800.673.1788

# Vulcan™ Series V1284HC Mobile DVR

## 12-CHANNEL MDVR

### DIMENSIONS

- Height: 5.0 inches
- Width: 7.72 inches
- Depth: 12.60 inches
- Weight: 6.61 pounds

### TWELVE (12) A/V INPUTS

- (8) HD channels 1080P + (4) IP channels up to 1080P

### VIDEO OUTPUTS

- 2 channels

### AUDIO OUTPUTS

- 2 channels, CVBS and VGA

### CAMERA COMPATIBILITY

- (8) HD channels up to 1080P + (4) IP channels up to 1080P

### STORAGE MEDIA

#### RECORDING MEDIUM

- Supports 3.5" hard disk up to 14TB and one (1) SD card slot

#### CAPACITY

- Up to 14TB

#### RECORDING OPTIONS

- SD card slot for redundant recording

### INTERFACE

#### CAMERA CONNECTION

- (4) RJ45 IP camera connections
- (8) 4 Pin HD camera connections

#### NETWORK DATA CONNECTION

- Ethernet: RJ45 x 1 (10/100 M/1000M)
- IPC Ethernet: RJ45 (4x10/100M, PON Power Supply)

#### EXPANSION

- RS232 x 1, RS485 (for RFID and iPanel) CAN x 2

#### GPS INTERFACE

- Built-in, compatible with optional passive or active GPS antenna

### DRIVER ACTION DETECTION

#### PANIC BUTTON

- The remote status indicator (panic button) can be connected to show MDVR power/record status without using a video monitor
- The driver-operated panic button has the following functions:
  - Solid green LED indicates that the unit has power and is recording
  - Event marker (panic button)



#### DRIVER ACTION DETECTION WIRES

- 8 signal wires individually programmable to indicate alarm or event

#### COMPRESSION FORMAT

- Video: H.264/H.265
- Audio: ADPCM, G.711U

### RECORD RESOLUTION

#### DIGITAL

- Parallax View™ (horizontal resolution exceeds cinema 4K), 4MP (4192X1360), 1080P (1920X1080), 720P (1280X720) @30FPS

#### NTSC

- 1080P, 720P, WD1(928X480), WHD1(928X240), WCIF(464X240), D1(704x480), HD1(704x240), CIF(352x240)
- 8x720P@30FPS (HD) + 4x1080P@30FPS (IP) OR 8x1080P@10FPS (HD) + 4x1080P@30FPS (IP)

#### RECORDING OPTIONS

- **Continuous record:** System will record all channels continuously while vehicle is running (factory setting).
- **Alarm record:** System will record when an alarm is triggered.
- **Motion record:** System will record when the cameras detect motion while vehicle is running.
- **Schedule record:** System will boot and record according to user-selectable schedule.

### ELECTRICAL & OPERATING REQUIREMENTS

#### AUTO ON/OFF DETECTION

- ACC detection

#### DELAY OFF SETTING

- User selectable up to 24 hours

#### OPERATING TEMPERATURE

- -40°F (-40°C) ~ 158°F (70°C) with heater or 14°F (-10°C) ~ 158°F (70°C)

#### OPERATING HUMIDITY

- 15% - 95%

#### BUILT-IN G-FORCE SENSOR

#### BUILT-IN WI-FI MODULE

#### BUILT-IN POWER PROTECTION

#### BUILT-IN GPS MODULE (REQUIRES ANTENNA)

### POWER SUPPLY

#### INPUT RANGE

- DC 9-36V, ACC

#### OUTPUT CURRENT

- 5V@500mA, 12V@500mA

#### POWER CONSUMPTION

- Standby: ≈0W
- Maximum: 100W
- Maximum (with heater): 125W

#### LOW VOLTAGE PROTECTION

- User selectable and programmed at installation

### HYBRID COMPONENT™ TECHNOLOGY

Modular design for on-site service, maintenance and upgrades in minutes

#### HOUSING/CASING

- Removable, shock-mounted
- Vandal-resistant locking hard drive
- Shock-resistant: MIL-STD-810F
- Aluminum
- 2 built-in fans for temperature regulation

### OPTIONAL AI FEATURES

### OPTIONAL COMPONENTS

#### VIRTUAL SYNCHRONIZED MAPPING™

#### GPS ANTENNA (ACTIVE OR PASSIVE)

#### CELLULAR MODEM (COMPATIBLE WITH 5G/4G)

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## 1. Downtown Ford

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2.25 mi

My Dealer

1900 Patrick Street Plaza Charleston, WV 25387

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