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Ford Motor Company  
P. O. Box 1904  
Dearborn, Michigan 48121

October 26, 2023

**TO:** All U.S. Ford and Lincoln Dealers

**SUBJECT:** **Customer Satisfaction Program 23B42**  
Certain 2023 Model Year Explorer, Bronco, Ranger  
Vehicles Equipped with 2.3L Gas Engine  
Engine Long Block Replacement

### **PROGRAM TERMS**

This program will be in effect through October 31, 2026. There is no mileage limit for this program.

### **URGENCY / EXPIRATION DATE**

This Customer Satisfaction Program has an expiration date of October 31, 2026, to encourage dealers and customers to have this service performed as soon as possible.

We recommend dealers utilize their FSA VIN Lists name and address to contact customers with affected vehicles. This will help minimize the number of vehicles that may experience engine coolant leaks or engine failure, which may require towing. FSA VIN Lists are expected to be available on October 26, 2023.

### **AFFECTED VEHICLES**

<b>Vehicle</b>	<b>Model Year</b>	<b>Assembly Plant</b>	<b>Build Dates</b>
Ranger	2023	Michigan	March 27, 2023 through April 19, 2023
Bronco	2023	Michigan	April 3, 2023 through May 18, 2023
Explorer	2023	Chicago	April 3, 2023 through April 29, 2023

U.S. population of affected vehicles: 131. Affected vehicles are identified in OASIS and FSA VIN Lists.

**Note:** Some vehicles may be in the process of being repaired at the plant. Monitor OASIS before opening an RO and/or beginning a repair. Parts purchased for an FSA can be returned for credit if required. See the EXCESS STOCK RETURN details in Labor Allowances and Parts Ordering Information for more information.

### **REASON FOR THIS PROGRAM**

In the affected vehicles, a damaged tool used during the engine block casting process may lead to the formation of a crack in the right side of the engine block assembly that can result in a coolant leak. Customers may experience a progressive series of symptoms, including a low coolant pressure, which could lead to a coolant leak that would be visible beneath the vehicle and finally may result in an illuminated Service Engine Soon Indicator for an engine overheat condition.

### **SERVICE ACTION**

Dealers are to replace the engine long block (Base Part # 6006) assembly. This service must be performed on all affected vehicles at no charge to the vehicle owner.

## **OWNER NOTIFICATION MAILING SCHEDULE**

Owner letters are expected to be mailed the week of November 13, 2023. Dealers should repair any affected vehicles that arrive at their dealerships, whether or not the customer has received a letter.

## **ATTACHMENTS**

- Administrative Information
- Labor Allowances and Parts Ordering Information
- Technical Instructions
- Mobile Service Repair Assessment
- Vehicle Pickup and Delivery Record
- Owner Notification

## **QUESTIONS & ASSISTANCE**

For questions and assistance, contact the Special Service Support Center (SSSC) via the SSSC Web Contact Site. The SSSC Web Contact Site can be accessed through the Professional Technician System (PTS) website using the SSSC link listed at the bottom of the OASIS VIN report screen or listed under the SSSC tab.

Sincerely,



Stacy L. Balzer

## Customer Satisfaction Program 23B42

### **MOBILE SERVICE REPAIR ASSESSMENT LEVEL**

- All repairs in this program have the following assessment level:  
⊘ - Not a Mobile Service Repair

### **OASIS ACTIVATION**

OASIS will be activated on October 26, 2023.

### **FSA VIN LISTS ACTIVATION**

FSA VIN Lists will be available through <https://web.fsavinlists.dealerconnection.com> on October 26, 2023. Owner names and addresses will be available on December 1, 2023.

**NOTE:** Your FSA VIN Lists may contain owner names and addresses obtained from motor vehicle registration records. The use of such motor vehicle registration data for any purpose other than in connection with this program is a violation of law in several states, provinces, and countries. Accordingly, you must limit the use of this listing to the follow-up necessary to complete this service action.

### **SOLD VEHICLES**

- Owners of affected vehicles will be directed to dealers for repairs.
- Immediately contact any of your affected customers whose vehicles are not on your VIN list but are identified in OASIS. Give the customer a copy of the Owner Notification Letter (when available) and schedule a service date.
- Correct other affected vehicles identified in OASIS which are brought to your dealership.
- Dealers are to prioritize repairs of customer vehicles over repairs of new and used vehicle inventory.

### **STOCK VEHICLES**

- Correct all affected units in your new vehicle inventory before delivery.
- Use OASIS to identify any affected vehicles in your used vehicle inventory.

### **BRANDED / SALVAGED TITLE VEHICLES**

Affected branded / salvaged title vehicles are eligible for this service action.

### **OWNER REFUNDS**

Refunds are not approved for this program.

### **RENTAL VEHICLES**

Dealers are pre-approved for up to 3 days for a comparable rental vehicle. Follow Extended Service Plan (ESP) guidelines for dollar amounts. Rentals will only be reimbursed for the day(s) the vehicle is at the dealership for part replacement. Prior approval for more than 3 rental day(s) is required from the SSSC via the SSSC Web Contact Site.

**Customer Satisfaction Program 23B42****PICK-UP AND DELIVERY- Participating Dealers**

Dealers participating in the Remote Experience Program:

- Refer to EFC12071, 2023 Remote Experience Program, Pickup & Delivery (PDL) Offset section for additional details.

**PICK-UP AND DELIVERY- Non-participating Dealers**

Dealers not participating in the 2023 Remote Experience Program for Pick-up & Delivery are authorized to claim unique services for completing this program.

- Dealers are authorized to claim one-half labor hour per repair for vehicle pick-up & delivery services. Refer to Labor Allowances for details.
- Dealers must retain a Vehicle Pick-up & Delivery Record with the repair order documentation.

**ALTERNATIVE TRANSPORTATION**

If a customer is unable or does not wish to rent a vehicle but still requires transportation, the rental reimbursement allowance can be used for alternative transportation. Alternative transportation is approved for \$100 per day for both Ford and Lincoln customers. The dollar-per-day allowance can be cumulative across multiple rides per day (e.g. ride to work \$20 and ride home \$24).

- Alternative transportation reimbursement can be claimed for both short-term and long-term scenarios.
- Any amount more than the cost-per-day limits will be the customer's responsibility.
- The customer will need to pay upfront and provide proof of payment to the dealer.
- Dealers will then need to submit for reimbursement following the Rental Vehicle Reimbursement Process and then refund the customer.

Examples of alternative transportation:

- Taxi
- Public Transportation - Subway, Train, or Bus
- Rideshare alternatives (Uber, Lyft, etc.)

**ADDITIONAL REPAIR (LABOR TIME AND/OR PARTS)**

Additional repairs identified as necessary to complete the FSA should be managed as follows:

- For related damage and access time requirements, refer to the Warranty and Policy Manual / Section 6 – Ford & Lincoln Program Policies / General Information & Special Circumstances for FSAs / Related Damage.
- For vehicles with powertrain warranty coverage, no SSSC approval is required, although related damage must be on a separate repair line with the "Related Damage" radio button checked.
  - Ford vehicles – 5 years or 60,000 miles
- For vehicles outside powertrain warranty coverage, submit an Approval Request to the SSSC Web Contact Site before completing the repair.

## Customer Satisfaction Program 23B42

### CLAIMS PREPARATION AND SUBMISSION

- **Claim Entry:** Enter claims using Dealer Management System (DMS) or One Warranty Solution (OWS) online.
  - When entering claims:
    - Claim type 31: Field Service Action
    - Sub Code: **23B42**
    - Customer Concern Code (CCC): **D50** – Other engine troubles
    - Condition Code (CC): **42** – Does not operate properly
    - Causal Part Number: **6006**, Quantity 0
  - For additional claims preparation and submission information, refer to the Recall and Customer Satisfaction Program (CSP) Repairs in the OWS User Guide.
- **Related Damage/Additional labor and/or parts:** Must be claimed as Related Damage on a separate repair line from the FSA with the same claim type and subcode as described in Claim Entry above.

**IMPORTANT:** Click the Related Damage Indicator radio button.
- **Rentals:** For rental vehicle claiming, follow Extended Service Plan (ESP) guidelines for dollar amounts. Enter the total amount of the rental expense under Miscellaneous Expense code RENTAL.
- **Parts Handling Allowance:** A parts handling allowance is being provided, unless otherwise notified by the Company or as provided by state law, in addition to the dealer cost of the long block assembly. To claim the allowance, enter \$600.00 as HANDLG in the Misc. Expense area of the claim form.
- **Provision for Locally Obtained Supplies:** Includes TA-26, ZC-30-A, ZC-31-B, ZC-20, PM-4-A, PM-4-B, TA-39, CU7Z-19B508-A, XO-5W30-Q1SP or XO-5W30-Q1FS, TA-357, VC-3-B, XL-5-A, Submit on the same line as the repair. Additional parts totaling more than \$350.00 requires prior approval from the SSSC.
  - Program Code: 23B42
  - Misc. Expense: OTHER
  - Misc. Expense: Claim up to \$350.00
- **Pickup & Delivery:**
  - Dealers participating in the Remote Experience Program –
    - Refer to EFC12071, 2023 Remote Experience Program, Pickup & Delivery (PDL) Offset section for additional details.
  - Dealers NOT participating in the Remote Experience Program –
    - Dealers are authorized to claim one-half labor hour per repair for vehicle pick-up and delivery services.
    - Dealers must retain a Vehicle Pick-up and Delivery Record with the repair order documentation.

Customer Satisfaction Program 23B42

**LABOR ALLOWANCES**

Description	Labor Operation	Labor Time
<b>Ranger 2.3L - 4X2 (2WD)</b> – Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, Time to replace/transfer Engine Oil Cooler)	MT23B42B	Up to 16.8 Hours
<b>Ranger 2.3L - 4X4 (AWD/4WD)</b> – Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler)	MT23B42C	Up to 17.5 Hours
<b>Bronco 2.3L - 4X4 (AWD/4WD) - With Automatic Transmission</b> - Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler)	MT23B42D	Up to 14.9 Hours
<b>Bronco 2.3L - 4X4 (AWD/4WD) - With Manual Transmission – WITH-OUT</b> Stabilizer Bar Disconnect. Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler)	MT23B42E	Up to 13.8 Hours
<b>Bronco 2.3L - 4X4 (AWD/4WD) - With Manual Transmission, WITH</b> Stabilizer Bar Disconnect. Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler) (If Equipped, time for Front Stabilizer Bar Disconnect) (If Equipped, time for Front Bumper Bar removal and installation)	MT23B42F	Up to 14.2 Hours
<b>Explorer 2.3L - 4X2 (2WD)</b> – Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler)	MT23B42G	Up to 16.1 Hours
<b>Explorer 2.3L - 4X4 (AWD/4WD)</b> – Replace Engine Long Block. (Includes time to transfer parts to new engine long block) and (If Equipped, time to replace/transfer Engine Oil Cooler)	MT23B42H	Up to 17.6 Hours
Vehicle Pick-up and Delivery Allowance: <b>This allowance is only for <u>non-eligible</u> 2023 Remote Experience Program Dealers.</b> <b>NOTE:</b> This allowance is for dealer-performed vehicle pick-up/delivery for dealership repairs only. Can only be claimed once, regardless of outstanding FSAs repaired.	23B42PP	0.5 Hours

Customer Satisfaction Program 23B42

**PARTS REQUIREMENTS / ORDERING INFORMATION**

Part Number	Description	Order Quantity	Claim Quantity
KB3Z-6006-*	2.3L Ranger Long Block Engine Assembly - <b>4X2 (2WD)</b> or <b>4X4 (AWD/4WD)</b>	1	1
MB3Z-6006-*	2.3L Bronco Long Block Engine Assembly - <b>4X4 (AWD/4WD)</b> - With <b>Automatic Transmission</b> <b>4X4 (AWD/4WD)</b> - With <b>Manual</b> Transmission	1	1
MB5Z-6006-*	2.3L Explorer Long Block Engine Assembly - <b>4X2 (2WD)</b>	1	1
MB5Z-6006-*	2.3L Explorer Long Block Engine Assembly - <b>4X4 (AWD/4WD)</b>	1	1
*- 6A642 - *	2.3L Engine Oil Cooler – All 2.3L Applications (If equipped and If required during the repair) – 1 Required	If Needed	

**NOTE:** To select the correct Long Block Engine Assembly (6006), enter the vehicle identification number (VIN), in Professional Technician System (PTS), refer to the correct Workshop Manual (WSM) Section 303-01 for service procedures and parts catalog for 2.3L engine long block replacement.

**NOTE:** For additional required miscellaneous parts or One-Time-Use Parts needed when replacing the 2.3L Long Block Engine assembly (Base Part # (\*-6006-\*), such as One-Time-Use parts, gaskets, fasteners, coolers, seals, fluids, etc. enter the vehicle identification number (VIN) in Professional Technician System (PTS). Refer to the Workshop Manual Tab, Select Workshop Manual (WSM) Section 303-01 for engine disassembly section, follow the workshop manual procedures, and (Click on the Shopping Cart Icon) use the One-Time-Use parts, tools, and Materials List to service the Long-Block engine assembly.

**NOTE:** Order your parts requirements through normal order processing channels. To guarantee the shortest delivery time, an emergency order for parts must be placed.

**DEALER PRICE**

For the latest prices, refer to DOES II.

**HANDLING ALLOWANCE**

An allowance of \$600.00 per repair is being provided unless otherwise notified by the Company or as provided by state law, in addition to the dealer cost of the (\*-6006-\*) long block assembly.

## Customer Satisfaction Program 23B42

### **PARTS RETENTION, RETURN, & SCRAPPING**

Follow the provisions of the Warranty and Policy Manual, Section 1 - WARRANTY PARTS RETENTION AND RETURN POLICIES. If a replaced part receives a scrap disposition, the part must be scrapped by all applicable local, state, and federal environmental protection and hazardous material regulations. Federal law prohibits selling motor vehicle parts or components that are under safety, compliance, or emissions recall.

### **EXCESS STOCK RETURN**

The excess stock returned for credit must have been purchased from Ford Customer Service Division by Policy Procedure Bulletin 4000.

### **REPLACED FSA PARTS INSPECTION AND SIGN OFF**

Effective March 1<sup>st</sup>, 2021, all parts replaced as part of an FSA repair with a repair order open date of March 1<sup>st</sup>, 2021, or later must be inspected and signed off on the repair order by a member of your dealer's fixed operations management team or an employee the task has been delegated to. If the task is to be delegated to a non-management employee, the employee needs to be someone other than the technician who completed the repair and needs to understand the importance of completing this task consistently and accurately.

- All parts replaced as part of an FSA repair should be returned to the parts department following the Warranty Parts Retention and Return Policies.
- Inspect the replaced parts to verify the FSA repair was completed.
- If the FSA repair is found to be complete, the designated employee signs the repair order line or parts return stamp area (electronic or hand signed) for the FSA repair indicating the parts were inspected and validated to have been replaced.
- After the parts have been inspected, they should be handled based on the guidance in the parts status report in the Online Warranty System (Hold, Return, CORE, Scrap, etc.). Please visit FMCDEALER > PARTS & SERVICE > WARRANTY ADMINISTRATION & WARRANTY PARTS RETURN for the latest [Immediate Scrap List](#) information.
- This process is subject to review during warranty audits for FSA repairs with a repair order open date of March 1<sup>st</sup>, 2021, or later. Any eligible FSA claims requiring parts replacement found not to have been inspected and signed off during a warranty audit will be subject to chargeback and consideration for enrollment into the Dealer Incomplete Recall Repair Process.

**Note:** Other approvals (electronic or handwritten) for add-on repair lines, dealer-owned vehicle repairs, and repeat repairs do not qualify as FSA parts inspection approvals. The post-repair FSA parts inspection process (electronic or handwritten) is independent of other warranty approval requirements. The approval by the designated employee implies that the FSA parts were found to be replaced and must be able to be identified on the Repair Order. If multiple FSAs require approval on a single Repair Order, each applicable occurrence will require individual post-repair approval by the designated employee.





Ford Motor Company  
Ford Customer Service Division  
P. O. Box 1904  
Dearborn, Michigan 48121

November 2023

## Customer Satisfaction Program 23B42

Mr. John Sample  
123 Main Street  
Anywhere, USA 12345

Your Vehicle Identification Number (VIN): 12345678901234567

At Ford Motor Company, we are committed not only to building high-quality, dependable products but also to building a community of happy, satisfied customers. To demonstrate that commitment, we are providing a no-charge Customer Satisfaction Program for your vehicle with the VIN shown above.

### Why are you receiving this notice?

On your vehicle, a damaged tool used during the engine block casting process may lead to the formation of a crack in the right side of the block assembly.

### What is the effect?



Service Engine Soon

A crack in the right side of the engine block assembly can result in a coolant leak. Customers may experience a progressive series of symptoms, including low coolant pressure, coolant leak that would be visible beneath the vehicle, and finally may result in an illuminated Service Engine Soon Indicator (icon shown on the left) for an engine overheat condition.

### What will Ford and your dealer do?

In the interest of customer satisfaction, Ford Motor Company has authorized your dealer to replace the engine long block free of charge (parts and labor) under the terms of this program.

This Customer Satisfaction Program will be in effect until October 31, 2026 regardless of mileage. Coverage is automatically transferred to subsequent owners.

### How long will it take?

The time needed for this repair is approximately 3 days. However, due to service scheduling requirements, your dealer may need your vehicle for a longer period of time. Additional time may be required to allow the engine to cool before performing this repair.

### What should you do?

Please call your dealer without delay to schedule a service appointment for Customer Satisfaction Program 23B42. Provide the dealer with your VIN, which is printed near your name at the beginning of this letter.

If you do not already have a servicing dealer, you can access [ford.com/support](https://ford.com/support) for dealer addresses, maps, and driving instructions.

**What should you do?  
(Continued)**

Ford Motor Company wants you to have this service action completed on your vehicle. The vehicle owner is responsible for making arrangements to have the work completed.

NOTE: You can receive information about Recalls and Customer Satisfaction Programs through our FordPass App. The app can be downloaded through the App Store or Google Play. In addition, there are other features such as reserving parking in certain locations and controlling certain functions on your vehicle (lock or unlock doors, remote start) if it is equipped to allow control.

**Do you need a rental vehicle?**

Your dealer is authorized to provide a rental vehicle for your personal transportation at no charge (except for fuel, insurance, and tax) while your vehicle is at the dealership for repairs. Please see your dealer for guidelines and limitations.

**What if you no longer own this vehicle?**

If you no longer own this vehicle and have an address for the current owner, please forward this letter to the new owner.

You received this notice because our records, which are based primarily on state registration and title data, indicate that you are the current owner.

**Can we assist you further?**

If you have difficulties getting your vehicle repaired promptly and without charge, please contact your dealership's Service Manager for assistance.

**RETAIL OWNERS:** If you have questions or concerns, please contact our **Ford Customer Relationship Center at 1-866-436-7332** and one of our representatives will be happy to assist you. If you wish to contact us through the Internet, our address is: [ford.com/support](http://ford.com/support).

For the hearing impaired call 1-800-232-5952 (TDD). Representatives are available Monday through Friday: 8:00 AM – 8:00 PM (Eastern Time).

**FLEET OWNERS:** If you have questions or concerns, please contact our **Ford Pro Contact Center at 1-800-34-FLEET**, choose Option #1, and one of our representatives will be happy to assist you. If you wish to contact us through the Internet, our address is [fleet.ford.com](http://fleet.ford.com).

Representatives are available Monday through Friday: 7:00 AM – 11:00 PM and Saturday 7:00 AM – 5:00 PM (Eastern Time).

Thank you for your attention to this important matter.

Ford Customer Service Division

Customer Satisfaction Program 23B42

**VEHICLE PICK-UP AND DELIVERY RECORD**

VIN \_\_\_\_\_ received (check one):

Pick-up and/or delivery service

As outlined below for the 23B42 Field Service Action program.

Pick-up      – Date: \_\_\_\_\_

Delivery      – Date: \_\_\_\_\_

\_\_\_\_\_  
Repair Order #

\_\_\_\_\_  
Repair Order Date

\_\_\_\_\_  
Service Manager Signature

\_\_\_\_\_  
Date

Customer Satisfaction Program 23B42













Mobile Service Repair Assessment

Assessment levels have been identified to help determine the ease of performing eligible mobile service repairs for a Field Service Action (FSA) outside of the dealership service facility.


**Dealer Bulletin**



Within Attachment I of the dealer bulletin a mobile service repair assessment level(s) will be provided. These assessment levels have been determined using the amount of time, equipment and labor identified to perform the intended service action.

**Assessment Levels**

-  - Mobile Reprogramming
-   - Light Mobile Service
-    - Enhanced Mobile Service
-     - Advanced Mobile Service
-  - Wheel and Tire Mobile Service
-  - Not a Mobile Service Repair

**Description of each level that is used to determine the overall assessment.**

-  – Mobile Reprogramming
  - Module Programming or similar type services
  - Minimum tools maybe required other than an **IDS/FDRS** setup
  - FDRS programming that requires internet connection (wi-fi or mobile hotspot)
  - Make sure vehicle has a charge port to ensure battery voltage is maintained during flashing of the module(s)
  - Repairs not greater than 1 hour in length (including time to wait for programming)

*Note: The location will need a charging station or wall box to maintain the 12-volt battery.*
-   – Light Mobile Service
  - Interior repair procedures that do not require seat, dash, or headliner removal
  - Under hood repairs that do not require large component removal
  - Exterior repairs that do not require large component/panel removal
  - Repairs may require standard hand tools (Access to a Technician starter kit or similar)

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   – Enhanced Mobile Service

- ***A two-person process is required anytime a procedure requires work under the vehicle***
  - Brake Inspection and Brake Repair/Replacement
  - Limited Suspension Component replacement (no alignment)
  - Under Vehicle access for limited repairs (no large component removal)
  - Vehicle Check Up - VCU
  - Pre-Delivery Inspection - PDI
  - Used Car Inspection/Presale Inspection
  - May require floor jack, jack stands, and impact tools
- Note: Wheel lock may be required.*

    – Advanced Mobile Service

- Fluid Exchange/Oil Change
- Light Repairs
- Brake Hydraulic Repairs

 – Wheel and Tire Mobile Service

- Tire Removal from Wheel
- Tire Balancing
- Tire Repair

*Note: Specialized Mobile Service unit and equipment including Tire balancer and Tire Changer required.*

 – Not a Mobile Service Repair

- Large component removal
- BEV Battery Replacement
- Requires a vehicle hoist – to complete the repair (more than inspection)
- Required vehicle alignment
- Requires significant vehicle disassembly
- Repairs greater than 2-3 hours
- Any repairs that require M-Time
- Includes a service procedure where the vehicle owner may be distressed about the state of their vehicle

## CERTAIN 2023 MODEL YEAR EXPLORER, RANGER, AND BRONCO VEHICLES EQUIPPED WITH A 2.3L GAS ENGINE — ENGINE LONG BLOCK REPLACEMENT

### SERVICE PROCEDURE

**NOTICE:** During engine repair procedures, cleanliness is extremely important. Any foreign material, including any material created while cleaning gasket surfaces, that enters the oil passages, coolant passages or the oil pan, can cause engine failure.

1. Remove the 2.3L Long Block engine assembly (Base Part # 6006).  
For Ranger Vehicles follow Workshop Manual (WSM) procedures in Section 303-01.  
For Explorer and Bronco Vehicles follow WSM procedures in Section 303-01A.
2. Install the *new* 2.3L Long Block engine assembly (Base Part # 6006).  
For Ranger Vehicles follow WSM procedures in Section 303-01.  
For Explorer and Bronco Vehicles follow WSM procedures in Section 303-01A.

**NOTE:** For additional required miscellaneous parts needed when replacing the Long Block Engine assembly (Base Part # (\*-6006-\*), such as gaskets, fasteners, coolers, seals, fluids, etc.. Enter the vehicle identification number (VIN), in Professional Technician System (PTS), refer to the correct Workshop Manual (WSM) Section 303-01 for service procedures and parts catalog for 2.3L Long Block Engine Replacement.

**NOTE:** For additional required miscellaneous parts or One-Time-Use Parts needed when replacing the 2.3L Long Block Engine assembly (Base Part # (\*-6006-\*), such as One-Time-Use parts, gaskets, fasteners, coolers, seals, fluids, etc.. Enter the vehicle identification number (VIN) in Professional Technician System (PTS). Refer to the Workshop Manual Tab, Select Workshop Manual (WSM) Section 303-01 for engine disassembly section, follow the workshop manual procedures, and (Click on the Shopping Cart Icon) use the One-Time-Use parts, tools, and Materials List to service the Long-Block engine assembly. See Figure 1.

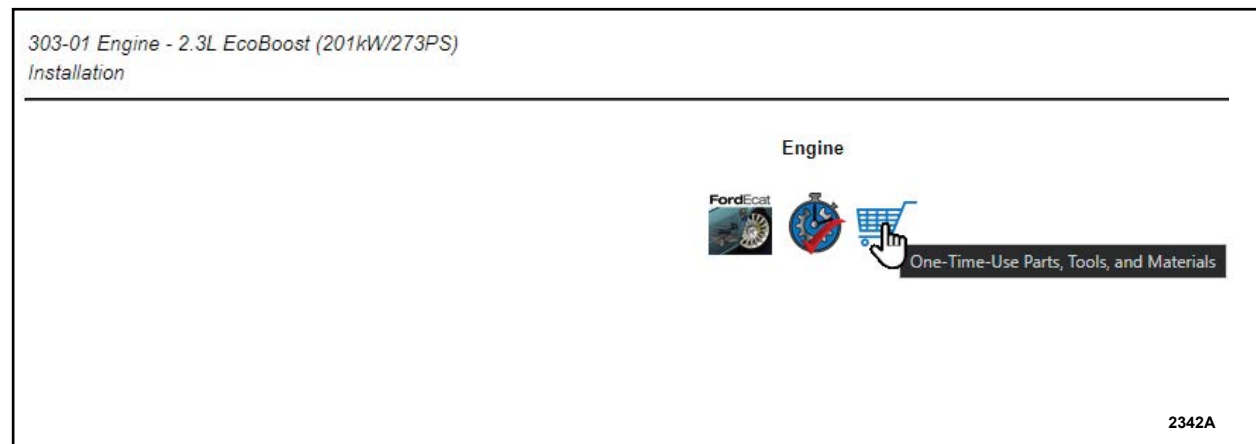


FIGURE 1



**NOTE:** Transfer components as necessary. These components include and are not limited to: Intake Manifold, Exhaust, Fuel system, wiring harness, engine sensors, rear engine components, Front Engine Accessory Components (F.E.A.D) and IF equipped, replace the engine oil cooler. Refer to the WSM for the individual component procedures.

3. Lower the vehicle. Clear any Diagnostic Trouble Codes (DTCs), and road test the vehicle per WSM instructions in the Engine Installation Section.

For Ranger Vehicles follow WSM procedures in Section 303-01.

For Explorer and Bronco Vehicles follow WSM procedures in Section 303-01A.

The repair is complete.

