



U.S. Department of Transportation  
National Highway Traffic Safety  
Administration



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November 27, 2024

**Sent Electronically**

Mr. Tom Single  
Ford Motor Company  
330 Town Center Drive  
Suite 500  
Dearborn, MI 48126

Subject: Information Request ID RQ24014-02

Dear Mr. Tom Single:

This is the second information request letter for the Recall Query (RQ24014) to investigate allegations of loss of loss of motive power in certain model year (MY) 2021-2024 Ford Bronco Sport and MY 2022-2023 Ford Maverick vehicles manufactured by Ford Motor Company (Ford). This letter requests certain engineering and technical information.

Unless otherwise stated in the text, the following definitions apply to these information requests:

- **Subject vehicles**: all MY 2021-2024 Ford Bronco Sport & MY 2022-2023 Ford Maverick manufactured for sale or lease in the United States, including, but not limited to, the District of Columbia, and current U.S. territories and possessions.
- **Subject recall**: NHTSA recall 24V-267 / Ford recall 24S24 issued on April 12, 2024, including all revisions.
- **Subject component**: all 12V batteries in the subject vehicles.
- **Alleged defect**: Loss of motive power related to the subject component.
- **Ford**: Ford Motor Company, all of its past and present officers and employees, whether assigned to its principal offices or any of its field or other locations, including all of its divisions, subsidiaries (whether or not incorporated) and affiliated enterprises and all of their headquarters, regional, zone and other offices and their employees, and all agents, contractors, consultants, attorneys and law firms and other persons engaged directly or

indirectly (e.g., employee of a consultant) by or under the control of Ford (including all business units and persons previously referred to), who are or were involved in any way as of January 1, 2016, with any of the following related to the alleged defect in the subject vehicles:

- a. Design, engineering, analysis, modification or production (e.g. quality control);
  - b. Testing, assessment or evaluation;
  - c. Consideration, or recognition of potential or actual defects, reporting, record-keeping and information management, (e.g., complaints, field reports, warranty information, part sales), analysis, claims, lawsuits or arbitrations; or
  - d. Communication to, from or intended for zone representatives, fleets, dealers, or other field locations, including but not limited to people who have the capacity to obtain information from dealers.
- **Document:** “Document(s)” is used in the broadest sense of the word and shall mean all original written, printed, typed, recorded, or graphic matter whatsoever, however produced or reproduced, of every kind, nature, and description, and all non-identical copies of both sides thereof, including, but not limited to, papers, letters, memoranda, correspondence, communications, electronic mail (e-mail) messages (existing in hard copy and/or in electronic storage), faxes, mailgrams, telegrams, cables, telex messages, notes, annotations, working papers, drafts, minutes, records, audio and video recordings, data, databases, other information bases, summaries, charts, tables, graphics, other visual displays, photographs, statements, interviews, opinions, reports, newspaper articles, studies, analyses, evaluations, interpretations, contracts, agreements, jottings, agendas, bulletins, notices, announcements, instructions, blueprints, drawings, as-builts, changes, manuals, publications, work schedules, journals, statistical data, desk, portable and computer calendars, appointment books, diaries, travel reports, lists, tabulations, computer printouts, data processing program libraries, data processing inputs and outputs, microfilms, microfiches, statements for services, resolutions, financial statements, governmental records, business records, personnel records, work orders, pleadings, discovery in any form, affidavits, motions, responses to discovery, all transcripts, administrative filings and all mechanical, magnetic, photographic and electronic records or recordings of any kind, including any storage media associated with computers, including, but not limited to, information on hard drives, floppy disks, backup tapes, and zip drives, electronic communications, including but not limited to, the Internet and shall include any drafts or revisions pertaining to any of the foregoing, all other things similar to any of the foregoing, however denominated by Ford, any other data compilations from which information can be obtained, translated if necessary, into a usable form and any other documents. For purposes of this request, any document which contains any note, comment, addition, deletion, insertion, annotation, or otherwise comprises a non-identical copy of another document shall be treated as a separate document subject to production. In all cases where original and any non-identical copies are not available, “document(s)” also means any identical copies of the original and all non-identical copies thereof. Any document, record, graph, chart, film or photograph originally produced in color must be provided in color. Furnish all documents whether verified by Ford or not. If a document is not in the English language, provide both the original document and an English

translation of the document.

- **Other Terms:** To the extent that they are used in these information requests, the terms “claim,” “consumer complaint,” “dealer field report,” “field report,” “fire,” “fleet,” “good will,” “make,” “model,” “model year,” “notice,” “property damage,” “property damage claim,” “rollover,” “type,” “warranty,” “warranty adjustment,” and “warranty claim,” whether used in singular or in plural form, have the same meaning as found in 49 C.F.R. § 579.4.

In order for my staff to evaluate the alleged defect, certain information is required. Pursuant to 49 U.S.C. § 30166, please provide numbered responses to the following information requests. Insofar as Ford has previously provided a document to ODI, Ford may produce it again or identify the document, the document submission to ODI in which it was included and the precise location in that submission where the document is located. When documents are produced, the documents shall be produced in an identified, organized manner that corresponds with the organization of this information request letter (including all individual requests and subparts). When documents are produced and the documents would not, standing alone, be self-explanatory, the production of documents shall be supplemented and accompanied by explanation.

Please repeat the applicable request verbatim above each response. After Ford's response to each request, identify the source of the information and indicate the last date the information was gathered.

1. Describe all modifications or changes made by, or on behalf of, Ford in the design, material composition, manufacture, quality control, supply, or installation of the subject component, from the start of production to date, which relate to, or may relate to, the alleged defect in the subject vehicles. For each such modification or change, provide the following information:
  - a. The date or approximate date on which the modification or change was incorporated into vehicle production;
  - b. A detailed description of the modification or change;
  - c. The reason(s) for the modification or change;
  - d. The part number(s) (service and engineering) of the original component;
  - e. The part number(s) (service and engineering) of the modified component;
  - f. Whether the original unmodified component was withdrawn from production and/or sale, and if so, when;
  - g. When the modified component was made available as a service component; and
  - h. Whether the modified component can be interchanged with earlier production components.

Also, provide the above information for any modification or change that Ford is aware of which may be incorporated into vehicle production within the next 120 days.

2. State the number of each of the following that Ford has sold that may be used in the subject vehicles by component name, part number (both service and

engineering/production), model and model year of the vehicle in which it is used and month/year of sale (including the cut-off date for sales, if applicable):

- a. Subject component; and
- b. Any kits that have been released, or developed, by Ford for use in service repairs to the subject component/assembly.

For each component part number, provide the supplier's name, address, and appropriate point of contact (name, title, and telephone number). Also identify by make, model and model year, any other vehicles of which Ford is aware that contain the identical component, whether installed in production or in service, and state the applicable dates of production or service usage.

3. Separately, provide a list of all vehicles for which the subject component was replaced by Ford under warranty. If a vehicle received more than one subject component replacement under warranty, please list both occurrences. For each vehicle, provide the following information:
  - a. Vehicle identification number (17-character VIN);
  - b. Make;
  - c. Model;
  - d. Model Year;
  - e. Date of subject component replacement (MM/DD/YYYY);
  - f. Vehicle's mileage at time of subject component replacement;
  - g. Subject component part number installed as original equipment; and
  - h. Subject component part number installed as replacement equipment.
4. Provide relevant connected vehicle data for each Vehicle Owner Questionnaire referenced in the RQ24014 opening resume, including Ford's assessment of the data as it relates to the alleged defect.
5. Provide a list of all warnings/indicators in the subject vehicles which relate to the 12V battery and/or vehicle electrical system, including any implemented by the subject recall remedy. For each warning/indicator, provide photographs and/or video and the following information:
  - a. What trigger initiates the warning/indicator;
  - b. The location in the gauge cluster or center screen where the warning/indicator is presented;
  - c. The duration that the warning/indicator is presented, and whether it can be cleared manually by the driver;
  - d. Whether the warning/indicator is solid or flashing; and
  - e. Whether the warning/indicator is accompanied by an audible chime.
6. Provide a list of each modification or change made by the updated Body Control Module (BCM) and Powertrain Control Module (PCM) calibrations implemented in the subject recall remedy, including those which relate to the detection of 12V battery state of charge. For each such modification or change, provide the following information:
  - a. A detailed description of the modification or change;
  - b. The original condition/threshold (if applicable);
  - c. The new or modified condition/threshold (if applicable); and

- d. The intended outcome of the modification or change as it relates to the alleged defect.
7. Separately, for each modification or change responsive to request 6, provide all assessments, analyses, tests, test results, studies, surveys, simulations, investigations, inquiries and/or evaluations (collectively, “actions”) conducted to develop **or** to evaluate the effectiveness of the modification or change as it relates to the alleged defect.

For each action identified, provide copies of all documents related to the action, regardless of whether the documents are in interim, draft, or final form. Organize the documents chronologically by action.

8. Furnish Ford’s assessment of the effectiveness of the subject recall remedy in addressing the alleged defect, including:
  - a. Its effectiveness in providing warning to the driver when 12V battery failure occurs during a drive cycle;
  - b. Its effectiveness in inhibiting loss of motive power after stopping during a drive cycle; and
  - c. Its effectiveness in inhibiting loss of motive power while the vehicle is in motion during a drive cycle.

### **Legal Authority for This Request**

This letter is being sent to Ford pursuant to 49 U.S.C. § 30166, which authorizes NHTSA to conduct any investigation that may be necessary to enforce Chapter 301 of Title 49 and to request reports. It constitutes a new request for information.

### **Civil Penalties**

Ford's failure to respond promptly and fully to this letter could subject Ford to civil penalties pursuant to 49 U.S.C. § 30165 or lead to an action for injunctive relief pursuant to 49 U.S.C. § 30163. (Other remedies and sanctions are available as well.) The Vehicle Safety Act, 49 U.S.C. § 30165(a)(3), provides for civil penalties of up to \$27,168 per violation per day, with a maximum of \$135,828,178 for a related series of daily violations, for failing or refusing to perform an act required under 49 U.S.C. § 30166. See 49 C.F.R. § 578.6(a)(3). These violations include failing to respond completely, accurately, or in a timely manner to ODI information requests.

If Ford cannot respond to any specific request or subpart(s) thereof, please state with sufficient detail in the corresponding narrative the reason why it is unable to do so. Redactions within a document containing responsive information are not permitted in the normal course. If on the basis of attorney-client, attorney work product, or other privilege, Ford does not submit one or more requested documents or items of information in response to this information request, Ford must provide a privilege log identifying each document or item withheld, and stating the date, subject or title, the name and position of the person(s) from, and the person(s) to whom it was sent, and the name and position of any other recipient (to include all carbon copies or blind carbon copies), the nature of that information or material, and the basis for the claim of privilege and why that privilege applies.

### **Confidential Business Information**

If Ford's response contains any information that you claim is confidential business information, Ford must submit its request for confidential treatment and any files containing CBI to NHTSA's Office of the Chief Counsel Via the CBI Portal or a secure electronic file transfer link. Please see enclosure 1 for additional instructions on submitting a request for confidential treatment that is compliant with 49 C.F.R. Part 512 (specifically, a request for confidential treatment must include the four required parts that are discussed in enclosure 1).

If you choose not to submit your request for confidential treatment and any files containing CBI directly to NHTSA's Office of the Chief Counsel via the CBI Portal, please notify the investigator referenced in this IR to ensure that the secure file transfer link for your request for confidential treatment and any files containing CBI are directed to the Office of the Chief Counsel accordingly.

In addition to submitting a request for confidential treatment and any files containing CBI directly to NHTSA's Office of the Chief Counsel, Ford must submit a copy of its request for confidential treatment and any files containing CBI directly to ODI via the Safety Defect Investigations (SDI) Portal. For each file submitted through the SDI Portal where CBI is being requested, Ford must check the "Contains CBI" box. In addition, Ford, must submit a redacted version of each file for which CBI is being requested. The requests for confidential treatments and certification documents are not considered confidential so these documents should not be marked as "Contains CBI".

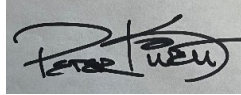
Please refer to RQ24014-02 in Ford's response to this letter and in the request for confidential treatment that Ford may submit.

### **Due Date**

Ford's response to this letter must be submitted to this office by **January 29, 2025**. If Ford finds that it is unable to provide all of the information requested within the time allotted, Ford must request an extension from me at (202) 366-6178 no later than five business days before the response due date. If Ford is unable to provide all of the information requested by the original deadline, it must submit a partial response by the original deadline with whatever information Ford then has available, even if an extension has been granted.

If you have any technical questions concerning this matter, please call Joseph Teitelman of my staff at (202) 366-3243.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter Kivett", enclosed within a rectangular border.

Peter Kivett, Chief  
VDD-C Division  
Office of Defects Investigation

Enclosure 1, Information for Requests for Confidential Treatment.

## ENCLOSURE 1 - INFORMATION FOR REQUESTS FOR CONFIDENTIAL TREATMENT

If you believe that your response contains any material that you claim is confidential business information, submit these materials to NHTSA's Office of the Chief Counsel in accordance with 49 C.F.R. Part 512. **All requests for confidential treatment must be submitted directly to the Office of the Chief Counsel via the Confidential Business Information (CBI) Portal or a secure file transfer link for your submission addressed to the Office of the Chief Counsel. If you are not currently registered for the CBI Portal, you may send a registration request to [cbi-helpdesk@dot.gov](mailto:cbi-helpdesk@dot.gov).** In addition to directly submitting the files to the Office of the Chief Counsel, you will also need to submit a copy of your request and files containing CBI directly to ODI through the Safety Defect Investigations (SDI) Portal.

Requests for confidential treatment are governed by Part 512. A current version of this regulation is available on the internet at <http://www.ecfr.gov> by selecting Title 49 "Transportation," selecting "Parts 500 - 599" and then selecting Part 512 "Confidential Business Information."

### How to request confidential treatment:

NHTSA is currently treating electronic submission as an acceptable method for submitting confidential business information to the agency under Part 512. If you claim that any of the information or documents provided in your response constitutes confidential business information within the meaning of 5 U.S.C. § 552(b)(4), or are protected from disclosure pursuant to 18 U.S.C. § 1905, you must request a secure file transfer link from the ODI contact listed in your Information Request. ODI will copy a representative from the Office of the Chief Counsel on the secure file transfer link for your request for confidential treatment. You must submit supporting information together with the materials that are the subject of the confidentiality request, in accordance with Part 512, to the Office of the Chief Counsel. Do not send a hardcopy of a request for confidential treatment to NHTSA's headquarters.

Your request must include a request letter that contains supporting information, pursuant to Part 512.8. Your request must also include a certificate, pursuant to Part 512.4(b) and Part 512, Appendix A.

You are required to submit one unredacted "confidential version" of the information for which you are seeking confidential treatment. Pursuant to Part 512.6, the words "ENTIRE PAGE CONFIDENTIAL BUSINESS INFORMATION" or "CONFIDENTIAL BUSINESS INFORMATION CONTAINED WITHIN BRACKETS" (as applicable) must appear at the top of each page containing information claimed to be confidential. In the latter situation, where not all information on the page is claimed to be confidential, identify each item of information for which confidentiality is requested within brackets: "[ ]."

You are also required to submit one redacted "public version" of the information for which you are seeking confidential treatment. Pursuant to Part 512.5(a)(2), the redacted "public version" should include redactions of any information for which you are seeking confidential treatment (i.e., the only information that should be unredacted is information for which you are not seeking confidential treatment).



For questions about a request for confidential treatment, please contact Dan Rabinovitz in the Office of the Chief Counsel at [Daniel.Rabinovitz@dot.gov](mailto:Daniel.Rabinovitz@dot.gov) or (202)366-8534.