

the part of a hybrid vehicle system that captures energy from and returns energy to the powertrain).

(iii) Hybrid architecture (such as parallel or series).

(iv) Motor/generator size, controller/CPU (memory or inputs/outputs), control algorithm, and batteries. This paragraph (q)(4)(iv) applies only if all of these are modified simultaneously.

(5) Manufacturers choosing to use the provisions of this paragraph (q) must submit an annual pre-compliance report to EPA for model years 2013 and later. Engine manufacturers must submit this report with their engine certification information. Hybrid manufacturers that are not certifying the engine-hybrid system must submit their report by June 1 of the model year, or at the time of certification if they choose to certify. Include the following in the report:

(i) A description of the manufacturer's product plans and of the engine-hybrid systems being certified.

(ii) A description of activities undertaken and progress made by the manufacturer towards achieving full OBD certification, including monitoring, diagnostics, and standardization.

(iii) For model year 2016 engines, a description of your basis for applying the provision of this paragraph (q) to the engines.

(6) Manufacturers that modify the engine's diagnostic system from the approved configuration to be compatible with a hybrid powertrain system under this paragraph (q) must add the following compliance statement to the ECI label: "for use in hybrid applications only".

[74 FR 8369, Feb. 24, 2009, as amended at 76 FR 57374, Sept. 15, 2011; 78 FR 36388, June 17, 2013]

**§ 86.010-38 Maintenance instructions.**

(a) The manufacturer shall furnish or cause to be furnished to the purchaser of each new motor vehicle (or motor vehicle engine) subject to the standards prescribed in § 86.099-8, § 86.004-9, § 86.004-10, or § 86.004-11, as applicable, written instructions for the proper maintenance and use of the vehicle (or engine), by the purchaser consistent with the provisions of § 86.004-25, which establishes what scheduled maintenance

the Administrator approves as being reasonable and necessary.

(1) The maintenance instructions required by this section shall be in clear, and to the extent practicable, nontechnical language.

(2) The maintenance instructions required by this section shall contain a general description of the documentation which the manufacturer will require from the ultimate purchaser or any subsequent purchaser as evidence of compliance with the instructions.

(b) Instructions provided to purchasers under paragraph (a) of this section shall specify the performance of all scheduled maintenance performed by the manufacturer on certification durability vehicles and, in cases where the manufacturer performs less maintenance on certification durability vehicles than the allowed limit, may specify the performance of any scheduled maintenance allowed under § 86.004-25.

(c) Scheduled emission-related maintenance in addition to that performed under § 86.004-25(b) may only be recommended to offset the effects of abnormal in-use operating conditions, except as provided in paragraph (d) of this section. The manufacturer shall be required to demonstrate, subject to the approval of the Administrator, that such maintenance is reasonable and technologically necessary to assure the proper functioning of the emission control system. Such additional recommended maintenance shall be clearly differentiated, in a form approved by the Administrator, from that approved under § 86.004-25(b).

(d) Inspections of emission-related parts or systems with instructions to replace, repair, clean, or adjust the parts or systems if necessary, are not considered to be items of scheduled maintenance which insure the proper functioning of the emission control system. Such inspections, and any recommended maintenance beyond that approved by the Administrator as reasonable and necessary under paragraphs (a), (b), and (c) of this section, may be included in the written instructions furnished to vehicle owners under paragraph (a) of this section: Provided, That such instructions clearly state, in a form approved by the Administrator,

that the owner need not perform such inspections or recommended maintenance in order to maintain the emissions defect and emissions performance warranty or manufacturer recall liability.

(e) The manufacturer may choose to include in such instructions an explanation of any distinction between the useful life specified on the label, and the emissions defect and emissions performance warranty period. The explanation must clearly state that the useful life period specified on the label represents the average period of use up to retirement or rebuild for the engine family represented by the engine used in the vehicle. An explanation of how the actual useful lives of engines used in various applications are expected to differ from the average useful life may be included. The explanation(s) shall be in clear, non-technical language that is understandable to the ultimate purchaser.

(f) If approved by the Administrator, the instructions provided to purchasers under paragraph (a) of this section shall indicate what adjustments or modifications, if any, are necessary to allow the vehicle to meet applicable emission standards at elevations above 4,000 feet, or at elevations of 4,000 feet or less.

(g) Manufacturers are subject to the service-information requirements of § 86.1808-01(f) beginning in the 2005 model year for manufacturers of heavy-duty vehicles and heavy-duty engines weighing 14,000 pounds gross vehicle weight (GVW) and less that are subject to the OBD requirements of this part.

(h) The manufacturer shall furnish or cause to be furnished to the purchaser of each new motor engine subject to the standards prescribed in § 86.004-10 or § 86.004-11, as applicable, the following:

(1) Instructions for all maintenance needed after the end of the useful life of the engine for critical emissions-related components as provided in § 86.004-25(b), including recommended practices for diagnosis, cleaning, adjustment, repair, and replacement of the component (or a statement that such component is maintenance free for the life of the engine) and instructions for accessing and responding to

any emissions-related diagnostic codes that may be stored in on-board monitoring systems;

(2) A copy of the engine rebuild provisions contained in § 86.004-40.

(i) Through model year 2013, the manufacturer shall furnish or cause to be furnished to the ultimate purchaser the following statement for each new diesel-fueled engine subject to the standards prescribed in § 86.007-11, as applicable: "This engine must be operated only with ultra low-sulfur diesel fuel (meeting EPA specifications for highway diesel fuel, including a 15 ppm sulfur cap)."

(j) The following provisions describe requirements related to emission control diagnostic service information for heavy-duty engines used in vehicles over 14,000 pounds gross vehicle weight (GVW):

(1) Manufacturers of heavy-duty engines used in applications weighing more than 14,000 pounds gross vehicle weight (GVW) that are subject to the applicable OBD requirements of this subpart A are subject to the provisions of this paragraph (j) beginning in the 2010 model year. The provisions of this paragraph (j) apply only to those heavy-duty engines subject to the applicable OBD requirements.

(2) Upon Administrator approval, manufacturers of vehicles may alternatively comply with all service information and tool provisions found in § 86.1808-01 that are applicable to 2001 and subsequent model year vehicles weighing less than 14,000 pounds gross vehicle weight (GVW). Upon Administrator approval, manufacturers that produce engines for use in vehicles between 8,500 and 14,000 pounds may, for those engines, alternatively comply with all service information and tool provisions in § 86.010-38(j) that are applicable to 2010 and subsequent model year vehicles over 14,000 pounds. Implementation dates must comply with the service information provision dates applicable to engines in vehicles between 8,500 and 14,000 pounds.

(3) *General requirements.* (i) Manufacturers shall furnish or cause to be furnished to any person engaged in the repairing or servicing of heavy-duty engines, or the Administrator upon request, any and all information needed

to make use of the on-board diagnostic system and such other information, including instructions for making emission-related diagnosis and repairs, including but not limited to service manuals, technical service bulletins, recall service information, bi-directional control information, and training information, unless such information is protected by section 208(c) as a trade secret. Manufacturers may take steps to restrict warranty and customer assurance plan information used only for the purpose of providing such manufacturer covered repairs to only those repair locations authorized by the manufacturer. No such information may be withheld under section 208(c) of the Act if that information is provided (directly or indirectly) by the manufacturer to franchised dealers, authorized service networks, or other persons engaged in the repair, diagnosing, or servicing of heavy-duty engines.

(ii) *Definitions.* The following definitions apply for this paragraph (j):

(A) *Aftermarket service provider* means any individual or business engaged in the diagnosis, service, and repair of a heavy-duty engine, who is not directly affiliated with a manufacturer or manufacturer franchised dealership, or authorized service network.

(B) *Authorized service network* means a group of independent service and repair facilities that are recognized by engine manufacturers as being capable of performing repairs to factory specification, including warranty repair work.

(C) *Bi-directional control* means the capability of a diagnostic tool to send messages on the data bus that temporarily overrides the module's control over a sensor or actuator and gives control to the diagnostic tool operator. Bi-directional controls do not create permanent changes to engine or component calibrations.

(D) *Data stream information* means information (i.e., messages and parameters) originated within the engine by a module or intelligent sensors (i.e., a sensor that contains and is controlled by its own module) and transmitted between a network of modules and/or intelligent sensors connected in parallel with either one or more communication wires. The information is broadcast over the communication wires for

use by the OBD system to gather information on emissions-related components or systems and from other engine modules that may impact emissions. For the purposes of this section, data stream information does not include engine calibration related information, or any data stream information from systems or modules that do not impact emissions.

(E) *Emissions-related information* means any information related to the diagnosis, service, and repair of emissions-related components. Emissions-related information includes, but is not limited to, information regarding any system, component or part of an engine that controls emissions and that is part of the diagnostic strategy for an OBD monitor, but not limited to: The engine, the fuel system and ignition system; information for any system, component or part that is likely to impact emissions, and any other information specified by the Administrator to be relevant to the diagnosis and repair of an emissions-related problem; any other information specified by the Administrator to be relevant for the diagnosis and repair of an emissions-related failure found through an evaluation of vehicles in-use and after such finding has been communicated to the affected manufacturer(s).

(F) *Emissions-related training information* means any information related training or instruction for the purpose of the diagnosis, service, and repair of emissions-related components.

(G) *Enhanced service and repair information* means information which is specific for an original equipment manufacturer's brand of tools and equipment. This includes computer or anti-theft system initialization information necessary for the completion of any emissions-related repair on engines that employ integral security systems.

(H) *Equipment and tool company* means a registered equipment or software company either public or private that is engaged in, or plans to engage in, the manufacture of scan tool reprogramming equipment or software.

(I) *Generic service and repair information* means information which is not specific for an original equipment manufacturer's brand of tools and equipment.

(J) *Indirect information* means any information that is not specifically contained in the service literature, but is contained in items such as tools or equipment provided to franchised dealers or authorized service networks (or others). This includes computer or anti-theft system initialization information necessary for the completion of any emissions-related repair on engines that employ integral security systems.

(K) *Intermediary* means any individual or entity, other than an original equipment manufacturer, which provides service or equipment to aftermarket service providers.

(L) *Manufacturer franchised dealership* means any service provider with which a manufacturer has a direct business relationship.

(M) *Recalibration* means the process of downloading to an engine's on-board computer emissions-related revisions of on-board computer application software and calibration parameters with default configurations. Recalibration is not dependent on the use of the vehicle identification number (VIN) in determining vehicle configuration.

(N) *Reconfiguration* means the process of enabling or adjusting engine features or engine parameters associated with such features to adapt a heavy-duty engine to a particular vehicle and/or application.

(O) *Third party information provider* means any individual or entity, other than an original equipment manufacturer, who consolidates manufacturer service information and makes this information available to aftermarket service providers.

(P) *Third party training provider* means any individual or entity, other than an original equipment manufacturer who develops and/or delivers instructional and educational material for training courses.

(4) *Information dissemination.* By July 1, 2010 each manufacturer shall provide or cause to be provided to the persons specified in paragraph (j)(3)(i) of this section and to any other interested parties a manufacturer-specific World Wide Web site containing the information specified in paragraph (j)(3)(i) of this section for 2010 and later model year engines which have been certified to the OBD requirements specified in

§ 86.010-18 and are offered for sale; this requirement does not apply to indirect information, including the information specified in paragraphs (j)(13) through (j)(17) of this section. Upon request and approval of the Administrator, manufacturers who can demonstrate significant hardship in complying with this provision by August 27, 2009, may request an additional six months lead time to meet this requirement. Each manufacturer Web site shall:

(i) Provide access in full-text to all of the information specified in paragraph (j)(6) of this section.

(ii) Be updated at the same time as manufacturer franchised dealership or authorized service network World Wide Web sites.

(iii) Provide users with a description of the minimum computer hardware and software needed by the user to access that manufacturer's information (e.g., computer processor speed and operating system software). This description shall appear when users first log-on to the home page of the manufacturer's Web site.

(iv) Upon Administrator approval, implement a range of time periods for online access to any person specified in paragraph (j)(3)(i) of this section whereby the user will be able to access the site, search for the information, and purchase, view and print the information at a fair and reasonable cost as specified in paragraph (j)(8) of this section for each of the options. In addition, for each of the range of time periods, manufacturers are required to make their entire site accessible for the respective period of time and price. In other words, a manufacturer may not limit Web site access to just one make or one model.

(v) Allow the user to search the manufacturer Web site by various topics including but not limited to model, model year, key words or phrases, etc., while allowing ready identification of the latest calibration. Manufacturers who do not use model year to classify their engines in their service information may use an alternate delineation such as body series. Any manufacturer utilizing this flexibility shall create a cross-reference to the corresponding

model year and provide this cross-reference on the manufacturer Web site home page.

(vi) Provide accessibility using common, readily available software and shall not require the use of software, hardware, viewers, or browsers that are not readily available to the general public. Manufacturers shall also provide hyperlinks to any plug-ins, viewers or browsers (e.g. Adobe Acrobat or Netscape) needed to access the manufacturer Web site.

(vii) Allow simple hyper-linking to the manufacturer Web site from Government Web sites and automotive-related Web sites.

(viii) Possess sufficient server capacity to allow ready access by all users and has sufficient capacity to assure that all users may obtain needed information without undue delay.

(ix) Correct or delete any reported broken Web links on a weekly basis.

(x) Allow for Web site navigation that does not require a user to return to the manufacturer home page or a search engine in order to access a different portion of the site.

(xi) Allow users to print out any and all of the materials required to be made available on the manufacturers Web site that can be reasonably printed on a standard printer, including the ability to print it at the user's location.

(5) *Small volume provisions for information dissemination.* (i) Manufacturers with total annual sales of less than 5,000 engines shall have until July 1, 2011 to launch their individual Web sites as required by paragraph (j)(4) of this section.

(ii) Manufacturers with total annual sales of less than 1,000 engines may, in lieu of meeting the requirement of paragraph (j)(4) of this section, request the Administrator to approve an alternative method by which the required emissions-related information can be obtained by the persons specified in paragraph (j)(3)(i) of this section.

(6) *Required information.* All information relevant to the diagnosis and completion of emissions-related repairs shall be posted on manufacturer Web sites. This excludes indirect information specified in paragraphs (j)(7) and (j)(13) through (j)(17) of this section. To

the extent that this information does not already exist in some form for their manufacturer franchised dealerships or authorized service networks, manufacturers are required to develop and make available the information required by this section to both their manufacturer franchised dealerships or authorized service networks and the aftermarket. The required information includes, but is not limited to:

(i) Manuals, including subsystem and component manuals developed by a manufacturer's third party supplier that are made available to manufacturer franchised dealerships or authorized service networks, technical service bulletins (TSBs), recall service information, diagrams, charts, and training materials. Informal recall service information such as engineering notes and/or sketches are not required to be made available as long as this information is not made available to manufacturer franchised dealerships or authorized service networks in the form of manuals. Manuals and other such service information from third party suppliers are not required to be made available in full-text on manufacturer Web sites as described in paragraph (j)(4) of this section. Rather, manufacturers must make available on the manufacturer Web site as required by paragraph (j)(4) of this section an index of the relevant information and instructions on how to order such information. In the alternate, a manufacturer can create a link from its Web site to the Web site(s) of the third party supplier.

(ii) OBD system information which includes, but is not limited to, the following:

(A) A general description of the operation of each monitor, including a description of the parameter that is being monitored;

(B) A listing of all typical OBD diagnostic trouble codes associated with each monitor;

(C) A description of the typical enabling conditions (either generic or monitor-specific) for each monitor (if equipped) to execute during engine operation, including, but not limited to, minimum and maximum intake air and engine coolant temperature, speed range, and time after engine startup.

In addition, manufacturers shall list all monitor-specific OBD drive cycle information for all major OBD monitors as equipped including, but not limited to, catalyst, catalyst heater, oxygen sensor, oxygen sensor heater, evaporative system, exhaust gas re-circulation (EGR), secondary air, and air conditioning system. Additionally, for diesel engines which also perform misfire, fuel system and comprehensive component monitoring under specific driving conditions (i.e., non-continuous monitoring; as opposed to spark ignition engines that monitor these systems under all conditions or continuous monitoring), the manufacturer shall make available monitor-specific drive cycles for these monitors. Any manufacturer who develops generic drive cycles, either in addition to, or instead of, monitor-specific drive cycles shall also make these available in full-text on manufacturer Web sites;

(D) A listing of each monitor sequence, execution frequency and typical duration;

(E) A listing of typical malfunction thresholds for each monitor;

(F) For OBD parameters for specific engines that deviate from the typical parameters, the OBD description shall indicate the deviation and provide a separate listing of the typical values for those engines;

(G) Identification and scaling information necessary to interpret and understand data available through Diagnostic Message 8 pursuant to SAE J1939-73 (as specified in paragraph (j)(17) of this section), or through Service/Mode \$06 pursuant to SAE J1979 (as specified in paragraph (j)(17) of this section).

(H) Algorithms, look-up tables, or any values associated with look-up tables are not required to be made available.

(iii) Any information regarding any system, component, or part of an engine monitored by the OBD system that could in a failure mode cause the OBD system to illuminate the malfunction indicator light (MIL);

(iv) Manufacturer-specific emissions-related diagnostic trouble codes (DTCs) and any related service bulletins, troubleshooting guides, and/or repair proce-

dures associated with these manufacturer-specific DTCs; and

(v) Information regarding how to obtain the information needed to perform reinitialization of any computer or anti-theft system following an emissions-related repair.

(7) *Anti-theft System Initialization Information.* Computer or anti-theft system initialization information and/or related tools necessary for the proper installation of on-board computers or necessary for the completion of any emissions-related repair on engines that employ integral security systems or the repair or replacement of any other emission-related part shall be made available at a fair and reasonable cost to the persons specified in paragraph (j)(3)(i) of this section.

(i) Except as provided under paragraph (j)(7)(ii) of this section, manufacturers must make this information available to persons specified in paragraph (j)(3)(i) of this section, such that such persons will not need any special tools or manufacturer-specific scan tools to perform the initialization. Manufacturers may make such information available through, for example, generic aftermarket tools, a pass-through device, or inexpensive manufacturer specific cables.

(ii) A manufacturer may request Administrator approval for an alternative means to re-initialize engines for some or all model years through the 2013 model year by July 27, 2009. The Administrator shall approve the request only after the following conditions have been met:

(A) The manufacturer must demonstrate that the availability of such information to aftermarket service providers would significantly increase the risk of theft.

(B) The manufacturer must make available a reasonable alternative means to install or repair computers, or to otherwise repair or replace an emission-related part.

(C) Any alternative means proposed by a manufacturer cannot require aftermarket technicians to use a manufacturer franchised dealership or authorized service networks to obtain information or special tools to re-initialize the anti-theft system. All information must come directly from the

manufacturer or a single manufacturer-specified designee.

(D) Any alternative means proposed by a manufacturer must be available to aftermarket technicians at a fair and reasonable price.

(E) Any alternative must be available to aftermarket technicians within twenty-four hours of the initial request.

(F) Any alternative must not require the purchase of a special tool or tools, including manufacturer-specific tools, to complete this repair. Alternatives may include lease of such tools, but only for appropriately minimal cost.

(G) In lieu of leasing their manufacturer-specific tool to meet this requirement, a manufacturer may also choose to release the necessary information to equipment and tool manufacturers for incorporation into aftermarket scan tools. Any manufacturer choosing this option must release the information to equipment and tool manufacturers within 60 days of Administrator approval.

(8) *Cost of required information.* (i) All information required to be made available by this section, shall be made available at a fair and reasonable price. In determining whether a price is fair and reasonable, consideration may be given to relevant factors, including, but not limited to, the following:

(A) The net cost to the manufacturer franchised dealerships or authorized service networks for similar information obtained from manufacturers, less any discounts, rebates, or other incentive programs;

(B) The cost to the manufacturer for preparing and distributing the information, excluding any research and development costs incurred in designing and implementing, upgrading or altering the onboard computer and its software or any other engine part or component. Amortized capital costs for the preparation and distribution of the information may be included;

(C) The price charged by other manufacturers for similar information;

(D) The price charged by manufacturers for similar information prior to the launch of manufacturer Web sites;

(E) The ability of the average aftermarket technician or shop to afford the information;

(F) The means by which the information is distributed;

(G) The extent to which the information is used, which includes the number of users, and frequency, duration, and volume of use; and

(H) Inflation.

(ii) Manufacturers must submit to EPA a request for approval of their pricing structure for their Web sites and amounts to be charged for the information required to be made available under paragraphs (j)(4) and (j)(6) of this section at least 180 days in advance of the launch of the web site. Subsequent to the approval of the manufacturer Web site pricing structure, manufacturers shall notify EPA upon the increase in price of any one or all of the subscription options of 20 percent or more above the previously approved price, taking inflation into account.

(A) The manufacturer shall submit a request to EPA that sets forth a detailed description of the pricing structure and amounts, and support for the position that the pricing structure and amounts are fair and reasonable by addressing, at a minimum, each of the factors specified in paragraph (j)(8)(i) of this section.

(B) EPA will act upon on the request within 180 days following receipt of a complete request or following receipt of any additional information requested by EPA.

(C) EPA may decide not to approve, or to withdraw approval for a manufacturer's pricing structure and amounts based on a conclusion that this pricing structure and/or amounts are not, or are no longer, fair and reasonable, by sending written notice to the manufacturer explaining the basis for this decision.

(D) In the case of a decision by EPA not to approve or to withdraw approval, the manufacturer shall within three months following notice of this decision, obtain EPA approval for a revised pricing structure and amounts by following the approval process described in this paragraph.

(9) *Unavailable information.* Any information which is not provided at a fair and reasonable price shall be considered unavailable, in violation of these

regulations and section 202(m)(5) of the Clean Air Act.

(10) *Third party information providers.*

(i) By January 1, 2011 manufacturers shall, for model year 2010 and later engines, make available to third-party information providers as defined in paragraph (j)(3)(ii) of this section with whom they may wish to engage in licensing or business arrangements, the required emissions-related information as specified in paragraph (j)(6) of this section either:

(A) Directly in electronic format such as diskette or CD-ROM using non-proprietary software, in English; or

(B) Indirectly via a Web site other than that required by paragraph (j)(4) of this section

(ii) Manufacturers are not responsible for the accuracy of the information distributed by third parties. However, where manufacturers charge information intermediaries for information, whether through licensing agreements or other arrangements, manufacturers are responsible for inaccuracies contained in the information they provide to third party information providers.

(11) *Required emissions-related training information.* By January 1, 2011, for emissions-related training information, manufacturers shall:

(i) Video tape or otherwise duplicate and make available for sale on manufacturer Web sites within 30 days after transmission any emissions-related training courses provided to manufacturer franchised dealerships or authorized service networks via the Internet or satellite transmission. Manufacturers shall not be required to duplicate transmitted emissions-related training courses if anyone engaged in the repairing or servicing of heavy-duty engines has the opportunity to receive the Internet or satellite transmission, even if there is a cost associated with the equipment required to receive the transmission;

(ii) Provide on the manufacturer Web site an index of all emissions-related training information available for purchase by aftermarket service providers for 2010 and newer engines. The required information must be made available for purchase within 3 months of model introduction and then must

be made available at the same time it is made available to manufacturer franchised dealerships or authorized service networks, whichever is earlier. The index shall describe the title of the course or instructional session, the cost of the video tape or duplicate, and information on how to order the item(s) from the manufacturer Web site. All of the items available must be shipped within 3 business day of the order being placed and are to made available at a fair and reasonable price as described in paragraph (j)(8) of this section. Manufacturers unable to meet the 3 business day shipping requirement under circumstances where orders exceed supply and additional time is needed by the distributor to reproduce the item being ordered, may exceed the 3 business day shipping requirement, but in no instance can take longer than 14 days to ship the item.

(12) *Timeliness and maintenance of information dissemination.* (i) Subsequent to the initial launch of the manufacturer's Web site, manufacturers must make the information required under paragraph (j)(6) of this section available on their Web site within six months of model introduction, or at the same time it is made available to manufacturer franchised dealerships or authorized service networks, whichever is earlier. After this six month period, the information must be available and updated on the manufacturer Web site at the same time that the updated information is made available to manufacturer franchised dealerships or authorized service networks, except as otherwise specified in this section.

(ii) *Archived information.* Manufacturers must maintain the required information on their Web sites in full-text as defined in paragraph (j)(6) of this section for a minimum of 15 years after model introduction. Subsequent to this fifteen year period, manufacturers may archive the information in the manufacturer's format of choice and provide an index of the archived information on the manufacturer Web site and how it can be obtained by interested parties. Manufacturers shall index their available information with a title that adequately describes the contents of the document to which it refers. Manufacturers may allow for the ordering of



information directly from their Web site, or from a Web site hyperlinked to the manufacturer Web site. In the alternate, manufacturers shall list a phone number and address where aftermarket service providers can call or write to obtain the desired information. Manufacturers must also provide the price of each item listed, as well as the price of items ordered on a subscription basis. To the extent that any additional information is added or changed for these model years, manufacturers shall update the index as appropriate. Manufacturers will be responsible for ensuring that their information distributors do so within one regular business day of receiving the order. Items that are less than 20 pages (e.g. technical service bulletins) shall be faxed to the requestor and distributors are required to deliver the information overnight if requested and paid for by the ordering party. Archived information must be made available on demand and at a fair and reasonable price.

(13) *Recalibration information.* (i) Manufacturers shall make available to the persons specified in paragraph (j)(3)(i) of this section all emissions-related recalibration or reprogramming events (including driveability reprogramming events that may affect emissions) in the format of their choice at the same time they are made available to manufacturer franchised dealerships or authorized service networks. This requirement applies on July 1, 2013.

(ii) Manufacturers shall provide persons specified in paragraph (j)(3)(i) of this section with an efficient and cost-effective method for identifying whether the calibrations on engines are the latest to be issued. This requirement applies on July 1, 2013.

(iii) For all 2013 and later OBD engines equipped with reprogramming capability, manufacturers shall comply with either SAE J2534-1 (as specified in paragraph (j)(17) of this section), or the Technology and Maintenance Council's (TMC) Recommended Practice TMC RP 1210B (as specified in paragraph (j)(17) of this section).

(iv) For model years 2013 and later, manufacturers shall make available to aftermarket service providers the necessary manufacturer-specific software

applications and calibrations needed to initiate pass-through reprogramming. This software shall be able to run on a standard personal computer that utilizes standard operating systems as specified in either SAE J2534-1 (as specified in paragraph (j)(17) of this section) or TMC RP 1210B (as specified in paragraph (j)(17) of this section).

(v) Manufacturers may take any reasonable business precautions necessary to protect proprietary business information and are not required to provide this information to any party that does not agree to these reasonable business precautions. The requirements to make hardware available and to release the information to equipment and tool companies apply on July 1, 2013, and within 3 months of model introduction for all new model years.

(14) *Generic and enhanced information for scan tools.* By July 1, 2013, manufacturers shall make available to equipment and tool companies all generic and enhanced service information including bi-directional control and data stream information as defined in paragraph (j)(3)(ii) of this section. This requirement applies for 2013 and later model year engines.

(i) The information required by this paragraph (j)(14) shall be provided electronically using common document formats to equipment and tool companies with whom they have appropriate licensing, contractual, and/or confidentiality arrangements. To the extent that a central repository for this information (e.g. the TEK-NET library developed by the Equipment and Tool Institute) is used to warehouse this information, the Administrator shall have free unrestricted access. In addition, information required by this paragraph (j)(14) shall be made available to equipment and tool companies who are not otherwise members of any central repository and shall have access if the non-members have arranged for the appropriate licensing, contractual and/or confidentiality arrangements with the manufacturer and/or a central repository.

(ii) In addition to the generic and enhanced information defined in paragraph (j)(3)(ii) of this section, manufacturers shall also make available the

following information necessary for developing generic diagnostic scan tools:

(A) The physical hardware requirements for data communication (e.g., system voltage requirements, cable terminals/pins, connections such as RS232 or USB, wires, etc.),

(B) Electronic Control Unit (ECU) data communication (e.g., serial data protocols, transmission speed or baud rate, bit timing requirements, etc.),

(C) Information on the application physical interface (API) or layers (i.e., processing algorithms or software design descriptions for procedures such as connection, initialization, and termination),

(D) Engine application information or any other related service information such as special pins and voltages or additional connectors that require enablement and specifications for the enablement.

(iii) Any manufacturer who utilizes an automated process in their manufacturer-specific scan tool for diagnostic fault trees shall make available to equipment and tool companies the data schema, detail specifications, including category types/codes and codes, and data format/content structure of the diagnostic trouble trees.

(iv) Manufacturers can satisfy the requirement of paragraph (j)(14)(iii) of this section by making available diagnostic trouble trees on their manufacturer Web sites in full-text.

(v) Manufacturers shall make all required information available to the requesting equipment and tool company within 14 days after the request to purchase has been made unless the manufacturer requests Administrator approval to refuse to disclose such information to the requesting company or requests Administrator approval for additional time to comply. After receipt of a request and consultation with the affected parties, the Administrator shall either grant or refuse the petition based on the evidence submitted during the consultation process:

(A) If the evidence demonstrates that the engine manufacturer has a reasonably based belief that the requesting equipment and tool company could not produce safe and functionally accurate tools that would not cause damage to the engine, the petition for non-disclo-

sure will be granted. Engine manufacturers are not required to provide data stream and bi-directional control information that would permit an equipment and tool company's products to modify an EPA-certified engine or transmission configuration.

(B) If the evidence does not demonstrate that the engine manufacturer has a reasonably-based belief that the requesting equipment and tool company could not produce safe and functionally accurate tools that would not cause damage to the engine, the petition for non-disclosure will be denied and the engine manufacturer, as applicable, shall make the requested information available to the requesting equipment and tool company within 2 days of the denial.

(vi) If the manufacturer submits a request for Administrator approval for additional time, and satisfactorily demonstrates to the Administrator that the engine manufacturer is able to comply but requires additional time within which to do so, the Administrator shall grant the request and provide additional time to fully and expeditiously comply.

(vii) Manufacturers may require that tools using information covered under paragraph (j)(14) of this section comply with the Component Identifier message specified in SAE J1939-71 (as specified in paragraph (j)(17) of this section) as Parameter Group Number (PGN) 65249 (including the message parameter's make, model, and serial number) and the SAE J1939-81 (as specified in paragraph (j)(17) of this section) Address Claim PGN.

(viii) Manufacturers are not required to make available to equipment and tool companies any information related to reconfiguration capabilities or any other information that would make permanent changes to existing engine configurations.

(15) *Availability of manufacturer-specific scan tools.* (i) By July 1, 2013, manufacturers shall make available for sale to the persons specified in paragraph (j)(3)(i) of this section their own manufacturer-specific diagnostic tools at a fair and reasonable cost. These tools shall also be made available in a

timely fashion either through the manufacturer Web site or through a manufacturer-designated intermediary. Upon Administrator approval, manufacturers will not be required to make available manufacturer-specific tools with reconfiguration capabilities if they can demonstrate to the satisfaction of the Administrator that these tools are not essential to the completion of an emissions-related repair, such as recalibration. As a condition of purchase, manufacturers may request that the purchaser take all necessary training offered by the engine manufacturer. Any required training materials and classes must comply with the following:

(A) Similar training must be required by the engine manufacturer for the use of the same tool by its franchised dealerships or authorized service networks;

(B) The training must be substantially similar to such training in terms of material covered and the length of training;

(C) The training must be made available within six months after a tool request has been made;

(D) The training must be made available at a fair and reasonable price.

(ii) Manufacturers shall ship purchased tools in a timely manner after a request and training, if any, has been completed. Any required training materials and classes must be made available at a fair and reasonable price. Manufacturers who develop different versions of one or more of their diagnostic tools that are used in whole or in part for emission-related diagnosis and repair shall also insure that all emission-related diagnosis and repair information is available for sale to the aftermarket at a fair and reasonable cost. Factors for determining fair and reasonable cost include, but are not limited to:

(A) The net cost to the manufacturer's franchised dealerships or authorized service network for similar tools obtained from manufacturers, less any discounts, rebates, or other incentive programs;

(B) The cost to the manufacturer for preparing and distributing the tools, excluding any research and development costs;

(C) The price charged by other manufacturers of similar sizes for similar tools;

(D) The capabilities and functionality of the manufacturer tool;

(E) The means by which the tools are distributed;

(F) Inflation;

(G) The ability of aftermarket technicians and shops to afford the tools.

Manufacturers shall provide technical support to aftermarket service providers for the tools described in this section, either themselves or through a third-party of their choice.

(16) *Changing content of manufacturer-specific scan tools.* Manufacturers who opt to remove non-emissions related content from their manufacturer-specific scan tools and sell them to the persons specified in paragraph (j)(3)(i) of this section shall adjust the cost of the tool accordingly lower to reflect the decreased value of the scan tool. All emissions-related content that remains in the manufacturer-specific tool shall be identical to the information that is contained in the complete version of the manufacturer-specific tool. Any manufacturer who wishes to implement this option must request approval from the Administrator prior to the introduction of the tool into commerce.

(17) *Reference materials.* Manufacturers shall conform with the following industry standards. These documents are incorporated by reference in § 86.1. Anyone may inspect copies at the U.S. EPA or at the National Archives and Records Administration (NARA). For information on the availability of this material at U.S. EPA, NARA, or the standard making bodies directly, refer to § 86.1.

(i) SAE J1939-71, Revised January 2008. For providing a means for the application processes to access the OSI environment, manufacturers shall comply with this industry standard.

(ii) SAE J1939-73, Revised September 2006. For identification and scaling information necessary to interpret and understand data available through Diagnostic Message 8, manufacturers shall comply with this industry standard. In the alternate, manufacturers may comply with Service/Mode \$06 pursuant to SAE J1979, Revised May 2007.

These recommended practices describe the implementation of diagnostic test modes for emissions related test data. Manufacturers shall comply with either SAE J1939-73 or SAE J1979 beginning with Model Year 2013.

(iii) SAE J1939-81, Revised May 2003. For management of source addresses and the association of those address with an actual function and with the detection and reporting of network realized errors, manufacturers shall comply with this industry standard.

(iv) SAE J2403, Revised August 2007. For Web-based delivery of service information, manufacturers shall comply with this industry standard which standardizes various terms, abbreviations, and acronyms associated with on-board diagnostics. Manufacturers shall comply with SAE J2403 beginning with the Model Year 2013.

(v) TMC RP 1210B, Revised June 2007. For pass-thru reprogramming capabilities, manufacturers shall comply with Technology and Maintenance Council's (TMC) Recommended Practice TMC RP 1210B. In the alternate, manufacturers may comply with SAE J2534-1, Revised December 2004. These recommended practices provide technical specifications and information that manufacturers must supply to equipment and tool companies to develop aftermarket pass-thru reprogramming tools. Manufacturers shall comply with either TMC RP 1210B or SAE J2534-1 beginning with Model Year 2013.

(18) *Reporting requirements.* Performance reports that adequately demonstrate that each manufacturers website meets the information requirements outlined in paragraphs (j)(6)(1) through (j)(6)(vi) of this section shall be submitted to the Administrator annually or upon request by the Administrator. These reports shall indicate the performance and effectiveness of the websites by using commonly used Internet statistics (e.g., successful requests, frequency of use, number of subscriptions purchased, etc.). Manufacturers shall provide to the Administrator reports on an annual basis within 30 days of the end of the calendar year. These annual reports shall be submitted to the Administrator electronically utilizing non-proprietary software in the format as agreed to by

the Administrator and the manufacturers.

(19) *Prohibited acts, liability and remedies.* (i) It is a prohibited act for any person to fail to promptly provide or cause a failure to promptly provide information as required by this paragraph (j), or to otherwise fail to comply or cause a failure to comply with any provision of this subsection.

(ii) Any person who fails or causes the failure to comply with any provision of this paragraph (j) is liable for a violation of that provision. A corporation is presumed liable for any violations of this subpart that are committed by any of its subsidiaries, affiliates or parents that are substantially owned by it or substantially under its control.

(iii) Any person who violates a provision of this paragraph (j) shall be subject to a civil penalty of not more than \$ 31,500 per day for each violation. This maximum penalty is shown for calendar year 2002. Maximum penalty limits for later years may be set higher based on the Consumer Price Index, as specified in 40 CFR part 19. In addition, such person shall be liable for all other remedies set forth in Title II of the Clean Air Act, remedies pertaining to provisions of Title II of the Clean Air Act, or other applicable provisions of law.

(iv) Manufacturers will not have any emissions warranty, in-use compliance, defect reporting or recall liability for service on a heavy-duty engine that is not undertaken by the manufacturer, for any damage caused by their own tools in the hands of independent service providers, or for the use and misuse of third party tools.

[74 FR 8408, Feb. 24, 2009, as amended at 75 FR 22978, Apr. 30, 2010; 79 FR 23689, Apr. 28, 2014]

#### § 86.012-2 Definitions.

The definitions of § 86.010-2 continue to apply to model year 2010 and later model year vehicles. The definitions listed in this section apply beginning with model year 2012. *Urban bus* means a passenger-carrying vehicle with a load capacity of fifteen or more passengers and intended primarily for intracity operation, i.e., within the confines of a city or greater metropolitan