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# Air Resources Board

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Edmund G. Brown Jr.  
Governor

DATE: April 12, 2013

MANUFACTURERS ADVISORY CORRESPONDENCE (MAC) 2013-02

TO: ALL MANUFACTURERS OF

- PASSENGER CARS
- LIGHT-DUTY TRUCKS
- MEDIUM-DUTY VEHICLES AND ENGINES USED IN SUCH VEHICLES
- HEAVY DUTY VEHICLES AND ENGINES USED IN SUCH VEHICLES
- MOTORCYCLES
- ALL OTHER INTERESTED PARTIES

SUBJECT: Clarification of the Emission Warranty Information Report (EWIR) formatting requirements currently used for 2010 and Subsequent Model Year (MY) Passenger Cars (PCs), Light-Duty Trucks (LDTs), Medium-Duty Vehicles (MDVs) and Engines Used in These Vehicles (MDEs), Heavy-Duty Vehicles (HDVs) and Engines Used in These Vehicles (HDEs), and Motorcycles.

This letter transmits a Manufacturers Advisory Correspondence (MAC) that clarifies the cancellation of MAC 2008-02 dated August 7, 2008, which pertains to emission warranty information reporting regulations for 2010 and subsequent MY PCs, LDTs, MDVs, MDEs, HDVs, HDEs, and Motorcycles.

For questions regarding this matter, please contact Jeff Wong, Manager, Field Operations Warranty Section, at (626) 575-7009 or by e-mail at [jwong@arb.ca.gov](mailto:jwong@arb.ca.gov).

Sincerely,

Robert Gammariello,  
Acting Chief  
Mobile Source Operations Division

Attachment

*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website: <http://www.arb.ca.gov>.*

California Environmental Protection Agency

State of California  
AIR RESOURCES BOARD

MANUFACTURERS ADVISORY CORRESPONDENCE (MAC) 2013-02

**SUBJECT:** Clarification of the Emission Warranty Information Report (EWIR) formatting requirements for 2010 and Subsequent Model Year (MY) Passenger Cars (PCs), Light-Duty Trucks (LDTs), Medium-Duty Vehicles (MDVs) and Engines Used in These Vehicles (MDEs), Heavy-Duty Vehicles (HDVs) and Engines Used in These Vehicles (HDEs), and Motorcycles.

**APPLICABILITY:** 2010 and subsequent MY PCs, LDTs, MDVs, MDEs, HDVs, HDEs, and Motorcycles

**REFERENCES:** "Procedures for Reporting Failures of Emission-Related Equipment Components", [Title 13, California Code of Regulations (CCR),] [Sections 2141-2149].

**BACKGROUND:** ARB issued MAC 2008-02 to provide industry the specific EWIR Reporting format as required under Title 13, CCR Sections, 2166-2174. However, because those sections were repealed on December 8, 2010, MAC 2008-02 is no longer valid and is hereby cancelled. This MAC specifies the EWIR reporting format required under Title 13 California Code of Regulations, Section 2144.

On January 4, 2008, ARB adopted the amended regulations.

On August 7, 2008, the ARB sent the MAC 2008-02 describing the new EWIR Reporting format.

On June 1, 2009 the amended EWIRs regulations were rescinded by the Los Angeles Superior Court (ruled the regulations to be invalid), therefore canceling the reporting requirements shown in MAC 2008-02.

This MAC re-establishes the EWIR reporting requirements for the Warranty Reporting regulations as per Title 13 CCR, Section 2144 that all manufactures are currently using.

Current warranty regulations follow Title 13 CCR, Sections 2139-2149.

POLICY:

EWIR Reporting Format

The recommended format for submitting the electronic EWIRs required by Title 13 CCR, Section 2144 is provided below:

1. Test Group

The test group field (field name: Test\_Group) will be set at a variable character string length of 12 characters.

2. Part Number

The part number field (field name: Part\_Number) will be set at a variable character string length of no more than 30 characters.

3. Component

The warranty component description field (field name: Component) will be set at a variable character string length of no more than 100 characters.

4. Repair Code

The repair code field (field name: Repair) will be set at a character string length of one. This field is used to determine whether a warranty claim involved an emission component replacement or repair. If an emission component was replaced, the designated code will be populated as N, and if the emission component was only repaired, the designated code will be populated as Y.

(note: computer software updated on a vehicle without removing or replacing the computer will be considered to be a repair).

5. Warranty Period

The warranty period code field (field name: Warranty\_Period) will be set at a variable character string length of no more than 8 characters. This field is used to denote the warranty period of the reported emission component. The warranty period is determined by the type of vehicle which is set forth in the table below:

Type	Warranty Period	Code Designation	Termination Point
Light or Med. Duty Gas/Diesel	3 yrs/ 50,000 miles	L	3 years
Light or Med. Duty Gas/Diesel	7 yrs/ 70,000 miles	H	5 years
PZEV Vehicles	15 yrs/ 150,000 miles	P	12 years
Battery coverage Used for Vehicles Propulsion	10 yrs/ 150,000 miles	B	10 years
Diesel Engines (Heavy Duty)	5 yrs/ 50,000 miles	D	5 years
Gas Engines (Heavy Duty)	5 yrs/ 50,000 miles	G	5 years
Light or Med. Duty (Gas/Diesel)	3 yrs/ 50,000 miles	S	3 years
Light or Med. Duty (Gas/Diesel) Split Class*	7 yrs/ 70,000 miles	T	5 years
LEV II Vehicles	8 yrs/ 100,000 miles	V	8 years
Diesel Engines (Heavy Duty) Split Class*	5 yrs/ 100,000 miles	F	5 years
Class I-Motorcycles	5 yrs/ 12,000 km	M1	5 years
Class II-Motorcycles	5 yrs/ 18,000 km	M2	5 years
Class III-Motorcycles	5 yrs/ 30,000 km	M3	5 years

\*A Split Class Designation occurs when a manufacturer builds and sells an engine in a multi-year chassis (e.g., engines certified for the 2003 MY are installed into a 2003 and 2004 MY chassis.) In this case, the manufacturer's EWIR would only report a 2003 MY test group or engine family when in fact, 2004 MY vehicles are being sold with the 2003 MY certified engine. As indicated in this sample, the manufacturer will have to report the 2003 MY vehicles for one additional year.

## 6. Sales

The sales field (field name: Sales) will be set as a numeric digit with a string length of no more than 10 digits. It will specifically identify the California production sales. **[Commas must not be added to this field.]** (e.g., 1,243 are incorrect; instead, the number must be entered as 1243).

## 7. Cumulative Claims

The cumulative claims field (field name: Cum\_Claims) will be set as a numeric character with a string length of no more than 10 digits and will be updated cumulatively on an annual basis. **[Commas must not be added to**

this field.] (e.g., 11,243 are incorrect; instead, the number must be entered as 11243).

#### 8. Percent

The percent field (field name: Percent) will be identified as a decimal character limited to one significant digit and a string length of no more than 8 digits. The cumulative warranty claims percentage will be compiled cumulatively on an annual basis. The data will be represented without percent (%) signs (e.g., 7.2% or 0.072 is incorrect; the data must be represented as 7.2).

#### 9. Time Frame

The time frame field (field name: Annual) will be set at a variable character string length of 6 using the following format, YYYYQx. Even though reports will be submitted annually under the new EWIR reporting regulations, this field will retain the quarter format used in the current EWIR reporting regulations. Manufacturers will use the last quarter of the year being reported for reporting their annual EWIR (e.g., 2012 reporting will be shown as 2012Q4).

#### 10. Models

Although all reporting manufacturers are currently including model information, ARB recommends that all manufacturers continue to include this information. The models field (field name: Models) are set at a variable character string length of no more than 120 characters. The make/model or car-line for the given test group or engine family will be identified. Manufacturers that utilize model codes must provide the Air Resources Board (ARB) with a model code decoder table defining the make/model of each model code in a separate document at the time the EWIR is submitted to ARB. [If more than one model is identified it should be separated by spaces or dashes. Commas must not be added to this field.] (e.g., model, model, model, and is incorrect; instead, the models must be entered as model-model-model).

### EWIR REPORTING:

#### Character Guidance

Manufacturers should not include any of the following characters as part of their EWIR submissions:

- Commas, &-ampersand signs, %-percent signs, or quotation marks

Use of any of these characters will cause the data to fail in the upload process. Should these characters be detected, or if other problems are identified in the manufacturers' EWIR data, ARB will return the document to

the manufacturer and will require the manufacturer to correct the EWIR data format so that the data can be properly uploaded into ARB's warranty reporting database. Also, manufacturers should submit the EWIR file in a comma delimited format (e.g., mfrs\_file.csv).

- A Comma Delimited format also referred to as comma separated value is a specially formatted plain text file which stores spreadsheet or basic database-style information in a very simple format, with one record on each line, and each field within that record separated by a comma. It is important that the individual "records" within a CSV file not contain commas, as this breaks up the simple formatting when using the file in another application. CSV files are often used as a simple way to transfer a large volume of spreadsheet or database information between programs, without the need for special file types.

EWIR Example in a CSV Format:

TestGroup,Part\_Num,Component,Repair,Cost,Sales,Claims,Percent,Qtr,Models  
ARBAB01.2345,123456789,GAS CAP,N,L,1932,404,7.2,2012Q1,MODEL-MODEL