

Directive 2005/64/EC of the European Parliament and of the Council of 26 October 2005 on the type-approval of motor vehicles with regard to their reusability, recyclability and recoverability and amending Council Directive 70/156/EEC

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## ANNEX

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## ANNEX I

### REQUIREMENTS

1. Vehicles belonging to category M<sub>1</sub> and those belonging to category N<sub>1</sub> shall be so constructed as to be:

- reusable and/or recyclable to a minimum of 85 % by mass, and
- reusable and/or recoverable to a minimum of 95 % by mass,

as determined by the procedures laid down in this Annex.

2. For the purposes of type-approval, the manufacturer shall submit a data presentation form duly completed, established in accordance with Annex A to the standard ISO 22628: 2002. It shall include the materials breakdown.

It shall be accompanied by a listing of the dismantled component parts, declared by the manufacturer with respect to the dismantling stage, and the process he recommends for their treatment.

3. For the application of points 1 and 2, the manufacturer shall demonstrate to the satisfaction of the approval authority that the reference vehicles meet the requirements. The calculation method prescribed in Annex B to the standard ISO 22628: 2002 shall apply.

However, the manufacturer must be in a position to demonstrate that any version within the vehicle type complies with the requirements of this Directive.

4. For the purposes of the selection of the reference vehicles, account shall be taken of the following criteria:

- the type of bodywork,
- the available trim levels<sup>(1)</sup>,
- the available optional equipment<sup>(1)</sup> which can be fitted under the manufacturer's responsibility.

5. Should the type-approval authority and the manufacturer fail jointly to identify the most problematic version within a type of vehicle, in terms of reusability, recyclability and recoverability, one reference vehicle shall be selected, within:

- (a) each 'type of bodywork', as defined in point 1 of part C of Annex II to Directive 70/156/EEC in the case of M<sub>1</sub> vehicles;
- (b) each 'type of bodywork', i.e. van, chassis-cab, pick-up, etc., in the case of N<sub>1</sub> vehicles.

6. For the purposes of calculations, tyres shall be considered as recyclable.

7. Masses shall be expressed in kg with one decimal place. The rates shall be calculated in percent with one decimal place, then rounded as follows:

- (a) if the figure following the decimal point is between 0 and 4, the total is rounded down;
- (b) if the figure following the decimal point is between 5 and 9, the total is rounded up.

8. For the purposes of checking the calculations referred to in this Annex, the approval authority shall ensure that the data presentation form referred to in point 2 is coherent

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with the recommended strategy annexed to the certificate of compliance referred to in Article 6(1) of this Directive.

9. For the purposes of checks of the materials and masses of component parts, the manufacturer shall make available vehicles and component parts as deemed necessary by the type-approval authority.

## ANNEX II

## INFORMATION DOCUMENT FOR EC VEHICLE TYPE-APPROVAL

in accordance with Annex I to Council Directive 70/156/EEC<sup>(2)</sup> relating to EC type-approval of a vehicle with regard to its reusability, recyclability and recoverability

The following information, if applicable, must be supplied in triplicate and include a list of contents. Any drawings must be supplied in appropriate scale and in sufficient detail on size A4 or on a folder of A4 format. Photographs, if any, must show sufficient detail.

0. GENERAL
  - 0.1. Make (trade name of manufacturer):...
  - 0.2. Type:...
    - 0.2.0.1. Chassis:...
    - 0.2.1. Commercial name(s) (if available):...
  - 0.3. Means of identification of type, if marked on the vehicle <sup>(b)</sup>:...
    - 0.3.1. Location of that marking:...
  - 0.4. Category of vehicle <sup>(c)</sup>:...
  - 0.5. Name and address of manufacturer:...
  - 0.8. Address(es) of assembly plant(s):...
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
  - 1.1. Photographs and/or drawings of a representative vehicle:...
  - 1.2. Dimensional drawing of the whole vehicle:...
  - 1.3. Number of axles and wheels:...
    - 1.3.1. Number and position of axles with double wheels:...
    - 1.3.3. Powered axles (number, position, interconnection):...
  - 1.7. Driving cab (forward control or bonneted)<sup>(z)</sup>:...
3. POWER PLANT <sup>(q)</sup> (In the case of a vehicle that can run either on petrol, diesel, etc., or also in combination with another fuel, items shall be repeated <sup>(+)</sup>)
  - 3.1. Manufacturer:...
  - 3.2. Internal combustion engine
    - 3.2.1. Specific engine information
      - 3.2.1.1. Working principle: positive ignition/compression ignition, four-stroke/two stroke<sup>(2)</sup>
      - 3.2.1.2. Number and arrangement of cylinders:...

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- 3.2.1.3. Engine capacity (<sup>s</sup>):...cm<sup>3</sup>
- 3.2.2. Fuel: diesel oil/petrol/LPG/NG/ethanol:<sup>(2)</sup>
- 4. TRANSMISSION (<sup>v</sup>)
  - 4.2. Type (mechanical, hydraulic, electric, etc.):...
  - 4.5. Gearbox
    - 4.5.1. Type (manual/automatic/CVT (continuously variable transmission))<sup>(2)</sup>
  - 4.9. Differential lock: yes/no/optional<sup>(2)</sup>
- 9. BODYWORK
  - 9.1. Type of bodywork:...
  - 9.3.1. Door configuration and number of doors:...
  - 9.10.3. Seats
    - 9.10.3.1. Number:...
- 15. REUSABILITY, RECYCLABILITY and RECOVERABILITY
  - 15.1. Version to which the reference vehicle belongs:...
  - 15.2. Mass of the reference vehicle with bodywork or mass of the chassis with cab, without bodywork and/or coupling device if the manufacturer does not fit the bodywork and/or coupling device (including liquids, tools, spare wheel, if fitted) without driver:...
  - 15.3. Masses of materials of the reference vehicle
    - 15.3.1. Mass of material taken into account at the pre-treatment step (<sup>##</sup>):...
    - 15.3.2. Mass of material taken into account at the dismantling step (<sup>##</sup>):...
    - 15.3.3. Mass of material taken into account at the non-metallic residue treatment step, considered as recyclable (<sup>##</sup>):
    - 15.3.4. Mass of material taken into account at the non-metallic residue treatment step, considered as energy recoverable (<sup>##</sup>):...
    - 15.3.5. Materials breakdown (<sup>##</sup>):...
    - 15.3.6. Total mass of materials, which are reusable and/or recyclable:...
    - 15.3.7. Total mass of materials, which are reusable and/or recoverable:...
  - 15.4. Rates
    - 15.4.1. Recyclability rate 'R<sub>cyc</sub> (%)':...
    - 15.4.2. Recoverability rate 'R<sub>cov</sub> (%)':...

## ANNEX III

### MODEL OF EC TYPE-APPROVAL CERTIFICATE

Maximum format: A4 (210 x 297 mm)

#### EC TYPE-APPROVAL CERTIFICATE

Stamp of EC type-approval authority

Communication concerning:

- EC type-approval<sup>(3)</sup> of a type of vehicle
- extension of EC type-approval<sup>(3)</sup>
- refusal of EC type-approval<sup>(3)</sup>

with regard to Directive 2005/64/EC

EC type-approval number:

Reason for extension:

#### SECTION I

- 0.1. Make (trade name of manufacturer):...
  - 0.2. Type:...
  - 0.2.1. Commercial name(s)<sup>(4)</sup>:
  - 0.3. Means of identification of type, if marked on the vehicle:...
  - 0.3.1. Location of that marking:...
  - 0.4. Category of vehicle<sup>(5)</sup>:...
  - 0.5. Name and address of manufacturer:...
  - 0.8. Name(s) and address(es) of assembly plant(s):...
- [...]

#### SECTION II

1. Additional information:...
  - Recyclability rate(s) of the reference vehicle(s):...
  - Recoverability rate(s) of the reference vehicle(s):...
2. Technical service responsible for carrying out the tests:...
3. Date of test report:...
4. Reference of test report:...

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5. Remarks (if any):...
6. Attachments: the index and information package
7. The vehicle meets/does not meet<sup>(6)</sup> the technical requirements of this Directive:...
- ...

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|         |             |        |
|---------|-------------|--------|
| (Place) | (Signature) | (Date) |
|---------|-------------|--------|

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Attachments: Information package.



## ANNEX IV

### PRELIMINARY ASSESSMENT OF THE MANUFACTURER

#### 1. Purpose of this Annex

This Annex describes the preliminary assessment that must be carried out by the competent body to ensure that the manufacturer has put in place the necessary arrangements and procedures.

#### 2. Competent body

The competent body shall comply with standard EN 45012: 1989 or ISO/IEC Guide 62: 1996 on the general criteria for certification bodies operating quality system certification as regards the management systems implemented by the manufacturer.

#### 3. Checks to be performed by the competent body

##### 3.1. The competent body shall ensure that the manufacturer has taken the necessary measures to:

- (a) collect appropriate data through the full chain of supply, in particular the nature and the mass of all materials used in the construction of the vehicles, in order to perform the calculations required under this Directive;
- (b) keep at his disposal all the other appropriate vehicle data required by the calculation process such as the volume of the fluids, etc.;
- (c) check adequately the information received from suppliers;
- (d) manage the breakdown of the materials;
- (e) be able to perform the calculation of the recyclability and recoverability rates in accordance with the standard ISO 22628: 2002;
- (f) mark the component parts made of polymers and elastomers in accordance with Commission Decision 2003/138/EC of 27 February 2003 establishing component and material coding standards for vehicles pursuant to Directive 2000/53/EC of the European Parliament and of the Council on end-of-life vehicles<sup>(7)</sup>;
- (g) verify that no component part listed in Annex V is reused in the construction of new vehicles.

##### 3.2. The manufacturer shall provide the competent body with all relevant information, in documentary form. In particular, recycling and recovery of materials shall be properly documented.

- [<sup>F1</sup>4.1. For the purposes of preliminary assessment under Article 6 of Directive 2005/64/EC, the vehicle manufacturer shall be required to demonstrate that, through contractual arrangements with his suppliers, compliance with Article 4(2)(a) of Directive 2000/53/EC is ensured.

#### Textual Amendments

- F1** Inserted by [Commission Directive 2009/1/EC of 7 January 2009 amending, for the purposes of its adaptation to technical progress, Directive 2005/64/EC of the European Parliament and of the Council](#)

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on the type-approval of motor vehicles with regard to their reusability, recyclability and recoverability (Text with EEA relevance).

- 4.2. For the purposes of preliminary assessment under Article 6 of Directive 2005/64/EC, the vehicle manufacturer shall be required to establish procedures for the following purposes:
- (a) to communicate the applicable requirements to his staff and to all of his suppliers;
  - (b) to monitor and ensure that suppliers act in accordance with those requirements;
  - (c) to collect the relevant data through the full supply chain;
  - (d) to check and verify the information received from suppliers;
  - (e) to react adequately where the data received from the suppliers indicate non-compliance with the requirements under Article 4(2)(a) of Directive 2000/53/EC.
- 4.3. For the purposes of paragraph 4.1 and 4.2, the vehicle manufacturer shall be required to use, in agreement with the competent body, ISO 9000/14000 or other standardised quality assurance programme.]

Appendix to Annex IV

MODEL OF CERTIFICATE OF COMPLIANCE

**CERTIFICATE OF COMPLIANCE**  
**WITH ANNEX IV TO DIRECTIVE 2005/64/EC**

No [..... Reference number]  
[..... the competent body]  
Certifies that

(Manufacturer): .....

(Address of the manufacturer): .....

complies with the provisions of Annex IV to Directive 2005/64/EC.


Checks have been performed on:

by (name and address of the competent body):

Number of report:

The certificate is valid until [.....date]

Done at [.....Place]  
On [.....Date]  
[.....Signature]



Attachments: Description of the strategy recommended by the manufacturer in the area of reuse, recycling and recovery.

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## ANNEX V

### COMPONENT PARTS DEEMED TO BE NON-REUSABLE

#### 1. Introduction

This Annex addresses the component parts of vehicles belonging to category M<sub>1</sub> and those belonging to category N<sub>1</sub> which must not be reused in the construction of new vehicles.

#### 2. List of component parts

- All airbags<sup>(8)</sup>, including cushions, pyrotechnic actuators, electronic control units and sensors
- Automatic or non-automatic seat belt assemblies, including webbing, buckles, retractors, pyrotechnic actuators
- Seats (only in cases where safety belt anchorages and/or airbags are incorporated in the seat)
- Steering lock assemblies acting on the steering column
- Immobilisers, including transponders and electronic control units
- Emission after-treatment systems (e.g. catalytic converters, particulate filters)
- Exhaust silencers.

## ANNEX VI

## AMENDMENTS TO DIRECTIVE 70/156/EEC

Directive 70/156/EEC is amended as follows:

1. the following points shall be added in Annex I:
  15. REUSABILITY, RECYCLABILITY and RECOVERABILITY
    - 15.1. Version to which the reference vehicle belongs:
    - 15.2. Mass of the reference vehicle with bodywork or mass of the chassis with cab, without bodywork and/or coupling device if the manufacturer does not fit the bodywork and/or coupling device (including liquids, tools, spare wheel, if fitted) without driver:
    - 15.3. Mass of materials of the reference vehicle
      - 15.3.1. Mass of material taken into account at the pre-treatment step<sup>(9)</sup>:
      - 15.3.2. Mass of material taken into account at the dismantling step<sup>(9)</sup>:
      - 15.3.3. Mass of material taken into account at the non-metallic residue treatment step, considered as recyclable<sup>(9)</sup>:
      - 15.3.4. Mass of material taken into account at the non-metallic residue treatment step, considered as energy recoverable<sup>(9)</sup>:
      - 15.3.5. Materials breakdown<sup>(9)</sup>:
      - 15.3.6. Total mass of materials, which are reusable and/or recyclable:
      - 15.3.7. Total mass of materials, which are reusable and/or recoverable:
    - 15.4. Rates
      - 15.4.1. Recyclability rate 'R<sub>cyc</sub> (%)':
      - 15.4.2. Recoverability rate 'R<sub>cov</sub> (%)':;
2. the following item shall be added in Part I of Annex IV:

| Subject | Official Applicability |  |                |                |                |                |                |                |                |                |                |                |
|---------|------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|         | Direct<br>No           | Journal<br>reference                                   | M <sub>1</sub> | M <sub>2</sub> | M <sub>3</sub> | N <sub>1</sub> | N <sub>2</sub> | N <sub>3</sub> | O <sub>1</sub> | O <sub>2</sub> | O <sub>3</sub> | O <sub>4</sub> |
| '59.    | 2005/64/<br>EC         | Recyclability<br>310,<br>25 November<br>2005,<br>p. 10 | X              | —              | —              | X              | —              | —              |                |                |                | '              |

3. Annex XI is amended as follows:
  - (a) the following item shall be added in Appendix 1:

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| Item | Subject       | Directive No | $M_1 \leq 2$<br>500 <sup>(1)</sup><br>kg | $M_1 > 2$<br>500 <sup>(1)</sup><br>kg | $M_2$ | $M_3$ |
|------|---------------|--------------|--|---------------------------------------|-------|-------|
| '59  | Recyclability | 2005/64/EC   | N/A                                      | N/A                                   | —     | —'    |

(b) the following item shall be added in Appendix 2:

| Item | Subject       | Directive number | $M_2$ | $M_3$ | $N_1$ | $N_2$ | $N_3$ | $O_1$ | $O_2$ | $O_3$ | $O_4$ |
|------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| '59  | Recyclability | 2005/64/EC       | —     | —     | N/A   | —     | —     | —     | —     | —     | —'    |

(c) the following item shall be added in Appendix 3:

| Item | Subject       | Directive number | $M_3$ | $N_1$ | $N_2$ | $N_3$ | $O_1$ | $O_2$ | $O_3$ | $O_4$ |
|------|---------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| '59  | Recyclability | 2005/64/EC       | —     | N/A   | —     | —     | —     | —     | —     | —'    |

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- (1) i.e. leather upholstery, in-car radio equipment, air-conditioning, alloy wheels, etc.
- (2) The item numbers and footnotes used in this information document correspond to those set out in Annex I to Directive 70/156/EEC. Items not relevant for the purpose of this Directive are omitted.
- (3) Delete where not applicable.
- (4) If not available at the time of granting the EC type-approval, this item shall be completed at the latest when the vehicle is introduced on the market.
- (5) As defined in part A of Annex II to Directive 70/156/EEC.
- (6) Delete where not applicable.
- (7) [OJ L 53, 28.2.2003, p. 58](#).
- (8) When the airbag is inserted inside the steering wheel, the steering wheel itself.
- (9) These terms are defined in the standard ISO 22628: 2002.';