Compliance Guide
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Chain-saws
(combustion engine powered)

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This guide is intended to help market surveillance authorities with the checking of conformity of combustion engine chain-saws in the European Union. It should only be taken as suggestions or observations for consideration.
1. Introduction

Chain-saw in conformity with EN ISO 11681-1:2011

Key
1) rear hand guard
2) rear handle
3) throttle trigger
4) throttle trigger lock-out
5) front handle
6) front hand guard
7) spiked bumper
8) guide-bar cover
9) guide-bar
10) saw chain
11) chain catcher

Note:
1. The standards indicated in this guide are the latest published versions.
2. The inspection of a product should be conducted using ONLY the standards as declared by the manufacturer in the D.o.C. delivered with the product.
1. Introduction

Main EU technical Directives and amendments & Regulations to be applied to chain-saws

**Directive 2014/30/EU**
Electromagnetic Compatibility

**Directive 2006/42/EC**
Machinery

**Directive 2000/14/EC** (as amended)
Outdoor Noise

**Directive 2014/30/EU**
Electromagnetic Compatibility

**Directive 97/68/EC** repealed
01.01.2017

**Regulation (EU) 2016/1628**
Exhaust Emissions plus supplementary acts
1. Introduction

Is this chain-saw compliant with EU Directives?

✓ • This guide is intended for quick evaluation of chain-saw marking:
   – CE marking
   – Exhaust emission marking (EC type approval number)
   – Guaranteed sound power level

✓ • And documentation:
   – EU declaration of conformity
   – Instructions

✗ • This guide is not applicable for technical evaluations

✗ • This guide is not applicable to electric and tree service chain-saws

✗ • This guide contains extracts of relevant regulations and does not claim completeness of contents
2. Machinery Identification  CE Marking

Illustration from 2006/42/EC

Machinery Directive 2006/42/EC

CE marking:
- The CE Conformity marking shall consist of the initials ‘CE’ as shown left;
- The CE marking shall be affixed to the machinery visibly, legibly and indelibly;
- The CE marking must include the minimum particulars (on the machine e.g. labelled, printed, embossed, etc.);
- The CE marking must be affixed in the immediate vicinity of the name of the manufacturer or his authorised representative, using the same technique.

Marking of machinery:
- Business name and address of the manufacturer or his authorised representative;
- Designation of the machinery (may be indicated by a code);
- Designation of series or type (may be indicated by a code and may be combined with the designation of the machinery);
- Serial number, if any;
- Year of construction/assembly.
3. Exhaust Emission Marking

According to the manufacturing date of the engine:

Before 3rd May 2017
• Marking of the engine according to 3.1 (a)

3rd May 2017 – 31st December 2018
• Marking of the engine according to 3.1 (a) & 3.1 (b) or 3.2

After 1st January 2019
• Marking of the engine according to 3.2
3.1(a) Engine Marking / EC Type Approval

- Until 31.12.18 engines that are in conformity with Directive 97/68/EC may continue to be produced and shall be marked with the EC Type Approval number according to the format below.
- The EC type-approval number must be durable for the useful life of the engine and must be clearly legible and indelible.
- The marking must be located so as to be readily visible to the average person after the engine has been completed with all the auxiliaries necessary for engine operation.
- The number must consist of five sections separated by the ‘*’ character.

**Example:**

- **Section 1**: ‘e’ followed by the number of the Member State issuing the approval (e.g. ‘1’ for Germany, ‘2’ for France, ‘11’ for UK).
- **Section 2**: Begins with 97/68 which is the number of the Emissions directive. The following characters refer to the different stages and designation of the engine.
- **Section 3**: The number of the latest amending Directive applicable to the approval.
- **Section 4**: A four-digit number to denote the base approval number.
- **Section 5**: A two-digit number to denote the extension.
3.1(b) Transition Scheme – Reg. (EU) 2016/1628

- Transition scheme allows, during a transition period, the placing on the EU market of engines produced prior to the applicable Stage V placing on the market date. These engines are called transition engines.

- ‘transition period’ means the first 24 months following the dates set out in Annex III for the placing on the market of Stage V engines.

- The applicable dates are:
  - 31st December, 2018: End of production of Transition engines.
  - 30th June 2020: Last date of production for machines incorporating Transition engines.

- For a machine incorporating a transition engine, the machine production date in month and year (e.g. MM/YYYY) can be used instead of the engine production date.
3.2 Engine Marking / EC Engine Type Approval

- From 01.01.2019, engines shall be in conformity with Regulation (EU) 2016/1628 and be marked with the EC Type Approval number according to the format below, either by the certificate number (A) or by a simplified mark (B):
- Example for a hand-held petrol engine below 50 cc, the engine category is NRSh and sub-category is NRSh-v-1a so the coding is SHA1

A) :

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  e11 * 2016/1628 * 2017/ RRRSHA1/P * XXXX * XX
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Section 1
- ‘e’ followed by the number of the Member State issuing the approval (e.g. ‘1’ for Germany, ‘2’ for France, ‘11’ for UK).

Section 2
- Begins with 2016/1628 which is the number of the Emissions Regulation.
- The following characters refer to the different stages and designation of the engine.

Section 3
- Three elements:
  - The number of the latest amending regulation
  - Engine category identification code e.g. SHA1 for Non Road Spark Ignition
  - Applicable fuel type code, e.g. P for Petrol

Section 4
- A four-digit number to denote the base type approval Number starting from 0001.

Section 5
- A two-digit number to denote the extension.

B) :

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e11 SHA1/P V-XXXX
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4. Marking / Outdoor Noise Label

Outdoor Noise Directive 2000/14/EC (as amended)

- The indication of the guaranteed sound power level must consist of
  - the single number of the guaranteed sound power in dB
  - the sign $L_{WA}$ and
  - a pictogram taking the following form:

![Example of LWA noise label](image)

- There are no noise limits for chain-saws but noise marking and declaration of the values in the instructions are required.
5. Documentation / Instructions

Machinery Directive 2006/42/EC

For clarification, consult the European Commission Guide to application of the Machinery Directive 2006/42/EC

• Machinery must be accompanied by instructions in the official Community language(s) of the Member State in which it is made available

• The instructions must contain at least the following information:
  – business name and full address of the manufacturer and of his authorised representative (if the manufacturer is not located in an EU Member State)
  – descriptions and explanations necessary for safe use, adjustment and maintenance operations that should be carried out by the user, and preventive maintenance measures that should be taken
  – a description of the intended use of the machinery (professional use and use by consumers)
  – warnings concerning ways in which the machinery must not be used that experience has shown might occur
The EU declaration of conformity (D.o.C.) must contain at least the following particulars:

- business name and full address of the manufacturer and, where appropriate, his authorised representative;
- name and address of the person authorised to compile the technical file, who must be established in the European Union;
- description and identification of the machinery including generic denomination, function, model, type, serial number and commercial name;
- a sentence expressly declaring that the machinery fulfils all the relevant provisions of this Directive and, where appropriate, a similar sentence declaring conformity with other Directives and/or relevant provisions with which the machinery complies;
- the name, address and notification number of the notified body which carried out the EC type examination in accordance with the Machinery Directive 2000/42/EC;
- the number of the EC type examination certificate;
- the guaranteed and measured sound power level in accordance with the Outdoor Noise Directive 2000/14/EC;
- the place and date of the declaration of conformity;
- the identity and signature of the person empowered to draw up the declaration on behalf of the manufacturer or his authorised representative.
7. Warning Text or Pictograms on the Machine*

- Warning – See instructions!

- Wear a head, eye & hearing protection

* If pictograms are used, they must be explained in the instructions
* If text is used, it must be in the official language(s) of the country where the product is sold