Garden Shredders / Chippers
hand fed
(combustion engine powered)
1. Introduction


Key:

1. Feed intake opening (Feed safety opening)
2. Discharge chute
3. Cutting means
4. Interlocked guard

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/ Regulations to be applied to combustion engine powered shredders

Directive 2006/42/EC
Machinery

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

Directive 97/68/EC repealed
01.01.2017

Regulation (EU) 2016/1628
Exhaust Emissions plus supplementary acts

Directive 2014/30/EU
Electromagnetic Compatibility
1. Introduction

Is this shredder/chipper compliant with EU Directives?

- This guide is intended for quick evaluation of integrally (combustion engine) powered shredder / chipper marking:
  - CE marking
  - Engine exhaust emission marking (EC type approval number)
  - Guaranteed sound power level

- Documentation:
  - EU Declaration of Conformity (D.o.C.)
  - Instructions

- This guide is not applicable for technical evaluations
- This guide is not applicable to mains operated (electric) shredders / chippers
- This guide contains extracts of relevant regulations and does not claim completeness of contents
2. Machinery Identification CE Marking

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
- Nominal power in kW (if over 20 kW)
- Mass in kg (if over 25 kg)
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:

- **e11**
  - **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).
- **97/68 SA**
  - **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.
- **2010/26**
  - **Section 3**: The number of the latest amending Directive applicable to the approval.
- **XXXX**
  - **Section 4**: A four-digit number to denote the base approval number.
- **00**
  - **Section 5**: A two-digit number to denote the extension.
• 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.
  • 31st December, 2020: End of placing on the market of machines incorporating Transition engines.

• For the transition engine, marking shall additionally include the engine production date (month and year). (e.g. MM/YYYY), this marking may be a separate mark.
3.2 Engine Marking / EC 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 petrol engine with variable rpm < 3600 rpm and ≥225 cc, the engine category is NRS and sub-category is NRS-vi-1b so the coding is SYB1.

### A)
- **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. SYB1 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)
- **e11**
- **SYB1/P**
- **V-XXXX**
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](image)

- There is no noise limit for integrally powered shredders/chippers, 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
6. Documentation / EU Declaration of Conformity

2006/42/EC, 2000/14/EC, 2014/30/EU

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

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 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*

- Read instructions
- Danger - Rotating blades. Keep hands and feet out of openings while machine is running
- Keep bystanders away

* 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

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