

**Compliance Guide  
Rev.2.1, Edition 04/2018**

# **Tillers Motor hoes (combustion engine powered)**

This guide is intended to help market surveillance authorities with the checking of conformity of combustion engine powered brush-cutters and grass trimmers in the European Union. It should only be taken as suggestions or observations for consideration

European Garden Machinery Federation

EGMF

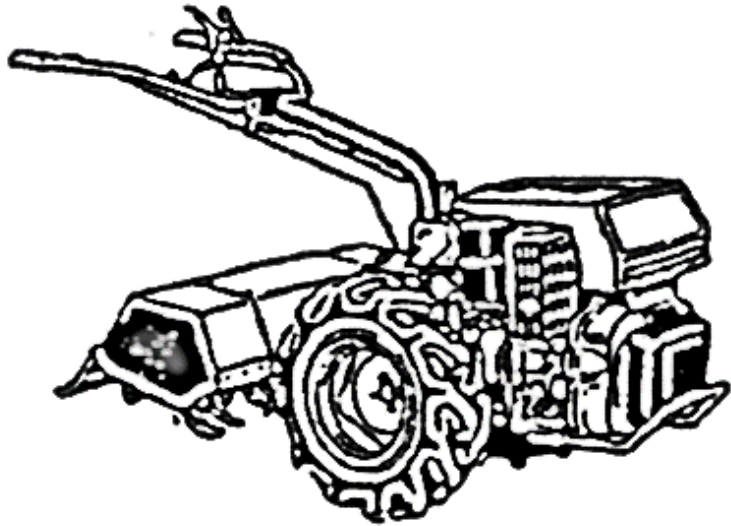
Bd Reyers 80, 1030 Brussels, Belgium

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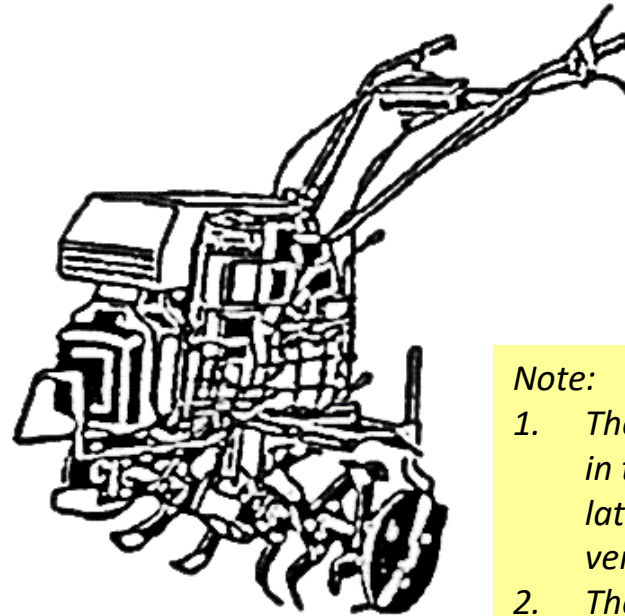
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# 1. Introduction

Pedestrian controlled tractor with mounted rotary cultivator and motor hoe in accordance with EN 709:1997+A4:2009/AC:2012 (tillers)



Pedestrian controlled tractor with mounted rotary cultivator (tiller)



Motor hoe

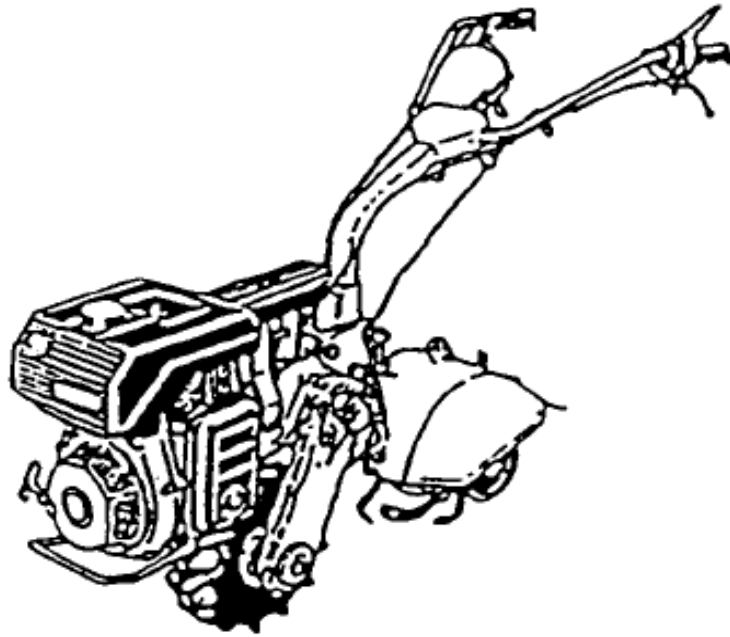
*Note:*

- 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

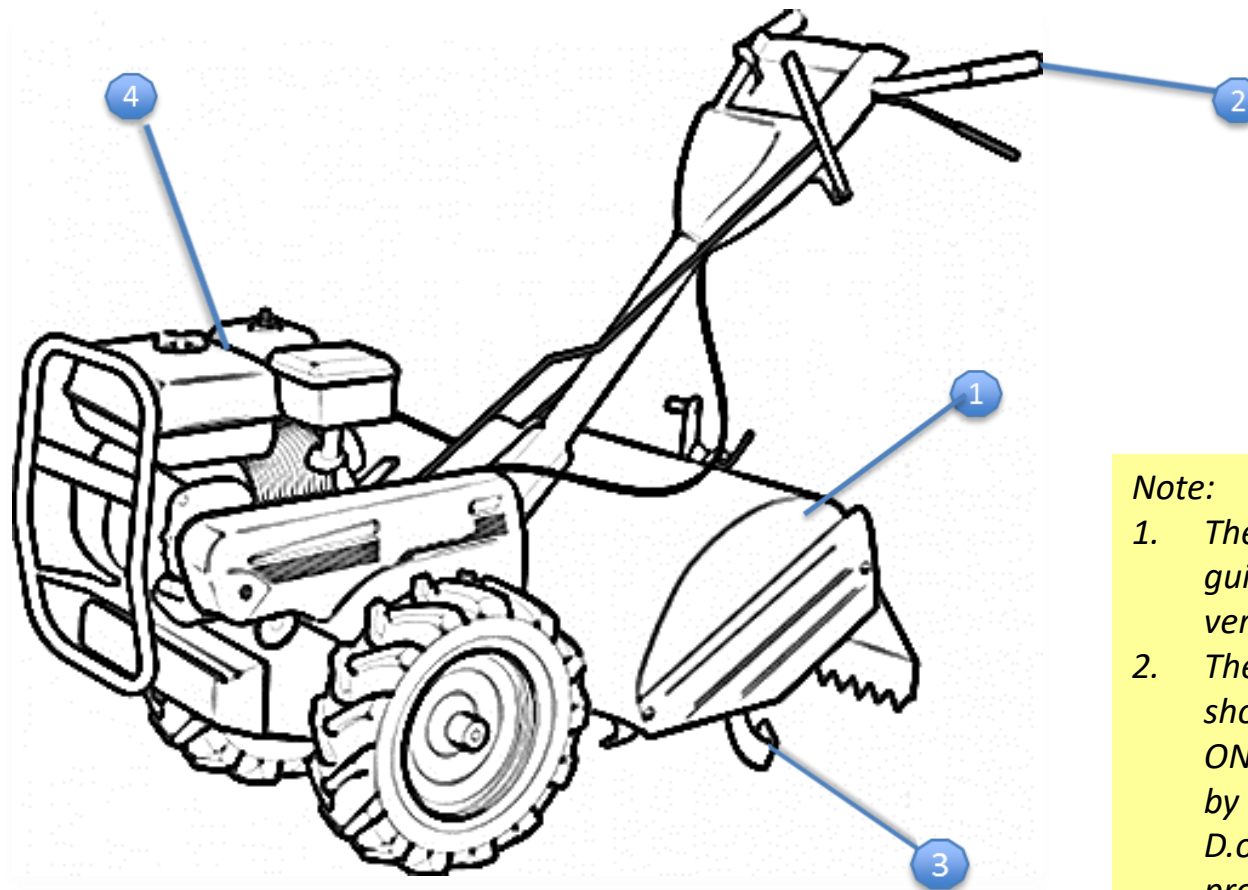


Motor hoe



Motor hoe with drive wheel

# 1. Introduction



## Key

- 1) Guard
- 2) Handles
- 3) Working tools
- 4) Engine

### Note:

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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.

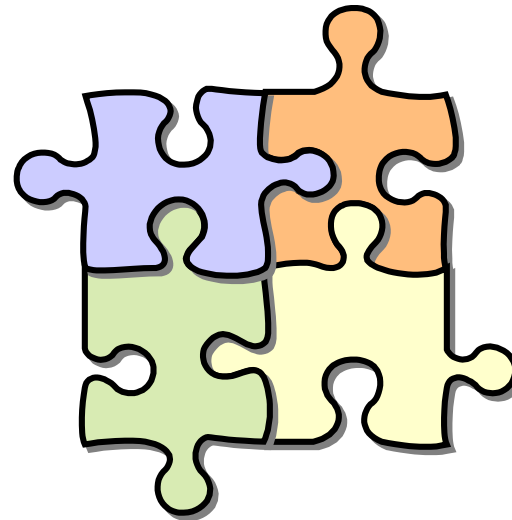
Description of essential components of a pedestrian controlled tiller

# 1. Introduction

**Main EU technical Directives/ Regulations to be applied to pedestrian controlled tractors, with mounted rotary cultivator, motor hoes and motor hoes with drive wheels**

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

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



**Directive 2006/42/EC**  
Machinery

**Only for motor hoes  
< 3 kW, Directive  
2000/14/EC (as  
amended)**  
Outdoor Noise

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



# 1. Introduction

## Is this tiller or motor hoe compliant with EU Directives?

- ✓ • This guide is made for quick evaluation of tiller and motor hoe marking:
  - CE marking
  - Engine exhaust emission marking (EC type approval number, if required)
  - Guaranteed sound power level **only for motor hoes with an engine power of less than 3 kW**
  
- ✓ • And documentation:
  - EU declaration of conformity
  - Instructions
  
- ✗ • This guide is not applicable for technical evaluations
- ✗ • This guide is not applicable to electric motor hoes
- ✗ • This guide contains extracts of relevant regulations and does not claim completeness of contents

## 2. Machinery Identification/ CE Marking

### Machinery Directive 2006/42/EC

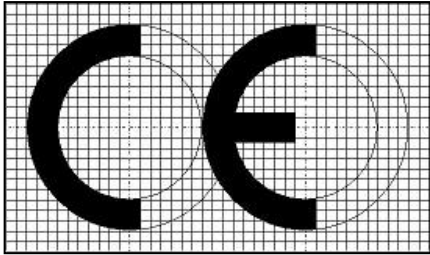


Illustration from 2006/42/EC

#### CE marking:

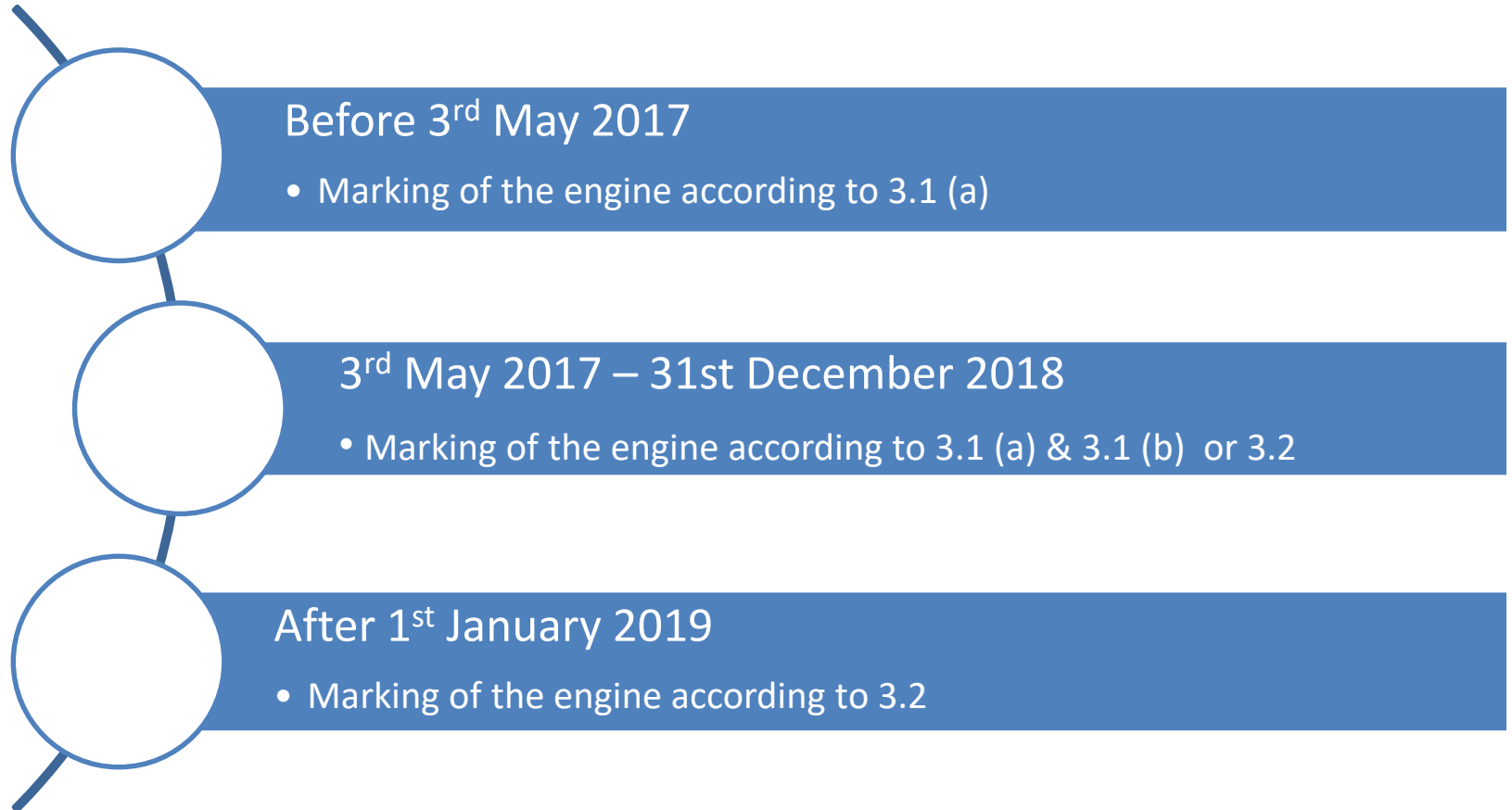
- The CE Conformity marking shall consist of the initials 'CE' as shown left;
- The CE marking shall be affixed to the machinery visibly, legibly and indelibly;
- The CE marking must contain the minimum particulars (on the machine e.g. labelled, printed, embossed, etc.);
- The CE marking must be affixed 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 rated power in kW;
- Mass of the machine, in kg.

# 3. Exhaust Emission Marking

According to the manufacturing date of the engine:





# 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.

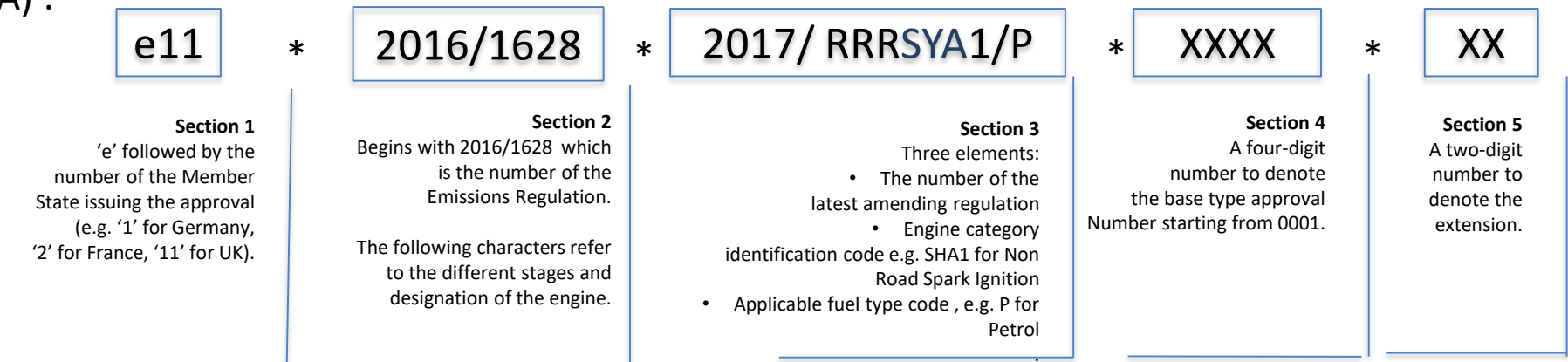
## 3.1(b) Transition Scheme – Reg. (EU) 2016/1628

- 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.
  - 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 in month and year (e.g. MM/YYYY), this marking may be a separate mark.

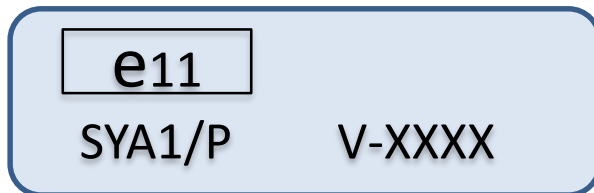
## 3.2 Engine Marking / EC Type Approval

- 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 motor hoe petrol engine of variable speed and between 80 & 225 cc, the engine category is NRS and sub-category is NRS-vi-1a so the coding is SYA1.

A) :



B) :

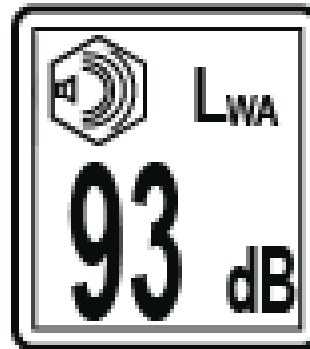


# 4. Marking / Outdoor Noise Label

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

The indication of the guaranteed sound power level **ONLY** for motor hoes with a nominal power of less than 3 kW must consist of

- the single number of the guaranteed sound power in dB
- the sign  $L_{WA}$
- a pictogram taking the following form:



Example

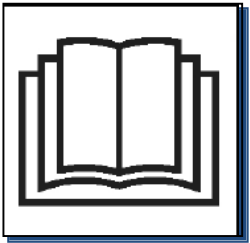
Noise limits for motor hoes with a nominal power of less than 3 kW: 93 dB(A)

Motor hoes with a nominal power equal to or greater than 3kW are out of the scope of the Outdoor Noise Directive 2000/14/EC

# 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 or 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 the 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 tiller/motor hoe 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:



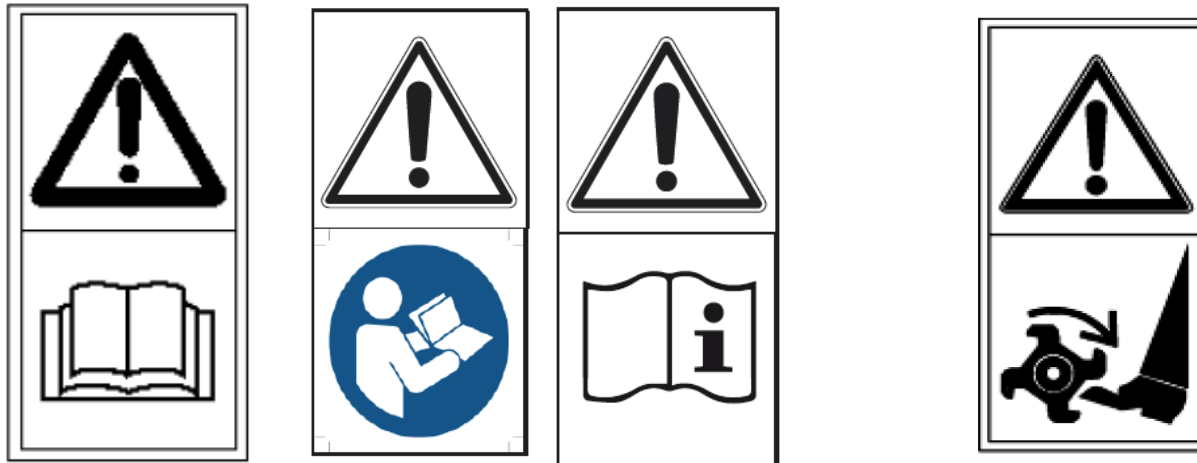
- business name and full address of the manufacturer and, where appropriate, his authorised representative;
- name and address of the person authorised to compile the technical file, who must be established in the European Union;
- description and identification of the machinery, including generic denomination, 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;
- For motor hoes below 3 kW:
  - the name and address of the Notified Body which carried out the conformity assessment in accordance with the Outdoor Noise Directive 2000/14/EC;
  - the guaranteed and measured sound power level in accordance with the Outdoor Noise Directive 2000/14/EC;
- the place and date of the declaration;
- 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

- Warning label for rotating working tool must be affixed



alternatives

- \* 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