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**Elektromotorna ročna orodja, prenosna orodja ter stroji za trato in vrt - Varnost - 4-3. del: Posebne zahteve za ročno vodene vrtno kosilnice - Dopolnilo A1**

Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers

Elektrische motorbetriebene handgeführte Werkzeuge, transportable Werkzeuge und Rasen- und Gartenmaschinen - Sicherheit - Teil 4-3: Besondere Anforderungen für personengeführte Rasenmäher

Outils électroportatifs à moteur, outils portables et machines pour jardin et pelouses - Sécurité - Partie 4-3: Exigences particulières pour tondeuses à gazon à conducteur à pied

[SIST EN IEC 62841-4-3:2021/oprA1:2024](https://standards.iteh.ai/SIST/EN/IEC/62841-4-3:2021/oprA1:2024)

**Ta slovenski standard je istoveten z: EN IEC 62841-4-3:2021/prA1:2024**

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**ICS:**

25.140.20	Električna orodja	Electric tools
65.060.70	Vrtnarska oprema	Horticultural equipment

**SIST EN IEC 62841-4-3:2021/oprA1:2024 en**





# 116/736/CDV

## COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:

**IEC 62841-4-3/AMD1 ED1**

DATE OF CIRCULATION:

**2024-03-08**

CLOSING DATE FOR VOTING:

**2024-05-31**

SUPERSEDES DOCUMENTS:

**116/678/RR**

IEC TC 116 : SAFETY OF MOTOR-OPERATED ELECTRIC TOOLS	
SECRETARIAT: United States of America	SECRETARY: Mr Joseph Harding
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING  <b>Attention IEC-CENELEC parallel voting</b>  The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.  The CENELEC members are invited to vote through the CENELEC online voting system.	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING

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TITLE:

**Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers**

PROPOSED STABILITY DATE: 2030

NOTE FROM TC/SC OFFICERS:

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRIC MOTOR-OPERATED HAND-HELD TOOLS,  
 TRANSPORTABLE TOOLS AND LAWN AND GARDEN MACHINERY –  
 SAFETY –**

**Part 4-3: Particular requirements for pedestrian controlled walk-behind  
 lawnmowers**

**AMENDMENT 1**

**FOREWORD**

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Amendment 1 to IEC 62841-4-3:2020 has been prepared by IEC technical committee 116: Safety of motor-operated electric tools.

The text of this Amendment is based on the following documents:

Draft	Report on voting
116/XX/XXXX	116/XX/XXX

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

53 This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in  
54 accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available  
55 at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are  
56 described in greater detail at [www.iec.ch/publications/](http://www.iec.ch/publications/).

57 A list of all parts of the IEC 62841 series, under the general title: *Electric motor-operated hand-*  
58 *held tools, transportable tools and lawn and garden machinery – Safety*, can be found on the  
59 IEC website.

60 The committee has decided that the contents of this document will remain unchanged until the  
61 stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the  
62 specific document. At this date, the document will be

- 63 • reconfirmed,
- 64 • withdrawn, or
- 65 • revised.

66 NOTE The attention of National Committees is drawn to the fact that equipment manufacturers and testing  
67 organizations may need a transitional period following publication of a new, amended or revised IEC publication in  
68 which to make products in accordance with the new requirements and to equip themselves for conducting new or  
69 revised tests.

70 It is the recommendation of the committee that the content of this publication be adopted for implementation nationally  
71 not earlier than 36 months from the date of publication.

72

## 73 1 Scope

74 *Replace the existing text of NOTE 104 with the following new text:*

75 NOTE 104 Lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws are covered by  
76 IEC 62841-4-4.

77 *Add the following new NOTE 106:*

78 NOTE 106 In Europe (EN IEC 62841-4-3) the following requirements apply:

79 This document does not apply to lawnmowers with a swing-over handle.

80 This document covers all significant hazards, hazardous situations or hazardous events relevant for machines  
81 covered by this document.

82 NOTE Z101 Essential requirements not mentioned in Table ZZ.1 are deemed to be not applicable, because the  
83 corresponding hazards are either not relevant for machines covered by this document or do not require specific  
84 action by the designer.

## 85 2 Normative references

86 *Add the following new references:*

87 IEC 60664-3:2016, *Insulation coordination for equipment within low-voltage systems – Part 3:*  
88 *Use of coating, potting or moulding for protection against pollution*

89 IEC 60664-4:2005, *Insulation coordination for equipment within low-voltage systems – Part 4:*  
90 *Consideration of high-frequency voltage stress*

91 IEC 61058-2-6:2018, *Switches for appliances – Part 2-6: Particular requirements for switches*  
92 *used in electric motor-operated hand-held tools, transportable tools and lawn and garden*  
93 *machinery*

94 IEC 61672-1:2013, *Electroacoustics – Sound level meters – Part 1: Specifications*

95 ISO 354:2003, *Acoustics – Measurement of sound absorption in a reverberation room*

96 ISO 2758:2014, *Paper – Determination of bursting strength*

97 ISO 11684:2023, *Tractors, machinery for agriculture and forestry, powered lawn and garden*  
98 *equipment – Safety labels – General principles*

99 ISO 13857:2019, *Safety of machinery – Safety distances to prevent hazard zones being*  
100 *reached by upper and lower limbs*

101 *Replace the existing undated references with dated references as follows:*

102 IEC 61058-1:2016, *Switches for appliances – Part 1: General requirements*

103 ISO 3744:2010, *Acoustics – Determination of sound power levels and sound energy levels of*  
104 *noise sources using sound pressure – Engineering methods for an essentially free field over a*  
105 *reflecting plane*

106 ISO 11201:2010, *Acoustics – Noise emitted by machinery and equipment – Determination of*  
107 *emission sound pressure levels at a work station and at other specified positions in an*  
108 *essentially free field over a reflecting plane with negligible environmental corrections*

### 109 **3 Terms and definitions**

110 *Replace the existing text of 3.114 with the following new text:*

#### 111 **3.114**

#### 112 **maximum speed**

113 highest steady-state **cutting means** speed attainable under all conditions of **normal use**,  
114 including no-load, when adjusted in accordance with the manufacturer's specifications and/or  
115 instructions

116 Note 101 to entry: The steady-state **cutting means** speed excludes transients such as overshoot that may occur  
117 before attaining a steady-state condition.

118 *Replace the existing text of Note 101 to entry of 3.117 with the following new text:*

119 Note 101 to entry: The device typically consists of a combination of a mechanical actuator and other mechanical  
120 and electrical components (e.g. tactile switch, relays, load switches or **electronic components**).

121 *Add the following new definition:*

#### 122 **3.121**

#### 123 **traction drive**

124 means (system) used to transmit power from the motor to the ground drive means

### 125 **8 Marking and instructions**

126 *Replace the existing text of the first dashed item of 8.2 with the following new text:*

127 – “ **WARNING** – Beware of thrown objects – keep bystanders away”, “ **WARNING** - Keep  
128 bystanders away by at least \_\_\_\_\_”, where “\_\_\_\_\_” is the recommended minimum distance  
129 between the machine and the bystander, or one of the safety signs specified in Figure AA.1;

130 *Add, after the first dashed item in 8.2, the following new dashed item:*

131 – “Wear ear protection” or a relevant safety sign of ISO 7010 or the product safety label  
132 specified in Figure AA.9. This marking may be omitted if the measured A-weighted emission  
133 sound pressure level at the operator's ear in accordance with Annex I does not exceed  
134 85 dB(A);

135 *Replace the existing text of the second dashed item of 8.2 with the following new text:*

- 136 – “ WARNING – Remove plug from mains before maintenance or if cord is damaged”,  
137 symbol M006 of ISO 7010, or one of the safety signs specified in Figure AA.2;

138 *Replace the existing NOTE 101 in 8.2 with the following new text:*

139 NOTE 101 In Canada and the United States of America, the following requirements apply.

140 **8.2 Addition:**

141 **Lawnmowers** shall be marked with a safety warning in one of the following versions:

- 142 – “ WARNING – To reduce the risk of injury, user must read instruction manual”, or symbol M002 of ISO 7010.

143 In Canada, the equivalent French wording of the above warning is as follows: “AVERTISSEMENT – Pour réduire le  
144 risque de blessure, l'utilisateur doit lire le manuel d'instructions”.

145 If used, the word “WARNING” shall be in capital letters not less than 2,4 mm high and shall not be separated from  
146 either the cautionary statement or the symbol ISO 7000-0434A or ISO 7000-0434B (2004-01).

147 If used, the statement shall be verbatim except the term “operator's manual” or “user guide” may be used for the  
148 term “instruction manual”.

149 Cautionary statements having the same signal word such as “ WARNING” may be combined into one paragraph  
150 under one signal word.

151 **Lawnmowers** shall be marked with the following safety warnings:

- 152 – “ WARNING – Beware of thrown objects – keep bystanders away” or one of the safety signs specified in  
153 Figure AA.1;

154 In Canada, the equivalent French wording of the above warning is as follows: “AVERTISSEMENT - Attention aux  
155 objets projetés - éloigner les passants”.

156 – For mains supplied machines:

- 157 – “ WARNING – Remove plug from mains before maintenance or if cord is damaged” or one of the safety signs  
158 specified in Figure AA.2;

159 In Canada, the equivalent French wording of the above warning is as follows: “AVERTISSEMENT – Débranchez la  
160 fiche du secteur avant l'entretien ou si le cordon est endommagé”.

- 161 – “ WARNING – Keep the supply cord away from the blades” or the safety sign specified in Figure AA.3.

162 In Canada, the equivalent French wording of the above warning is as follows: “AVERTISSEMENT – Gardez le cordon  
163 d'alimentation éloigné des lames”.

164 **Rotary lawnmowers** shall be marked with the following safety warning:

- 165 – “ WARNING – Keep hands and feet away from the blades” or one of the safety signs specified in Figure AA.4.

166 In Canada, the equivalent French wording of the above warning is as follows: “AVERTISSEMENT – Gardez les mains  
167 et les pieds éloignés des lames”.

168 Alternatively, the requirements of this subclause are considered to be fulfilled if the **lawnmower** complies with  
169 ANSI B71.1:2017, subclause 12.1 (except for Item a)).

170 *Compliance is checked by inspection and by measurement.*

171 For applicable **lawnmowers** in the scope of 16 CFR 1205:

- 172 – Warning label for **cylinder lawnmowers** and **rotary lawnmowers**.

173 (a) General. Walk-behind **cylinder lawnmowers** and **rotary lawnmowers** shall be labeled on the blade (**cutting**  
174 **means**) housing or, in the absence of a blade (**cutting means**) housing, on other blade (**cutting means**) shielding  
175 or on an adjacent supporting structure or assembly, with the warning label shown in Figure AA.8. The label shall be  
176 at least 82,5 mm high and 102 mm wide, and the lettering and symbol shall retain the same size relation to each  
177 other and to the label as shown in Figure AA.8.

178 (b) **Rotary lawnmowers.** Walk-behind **rotary lawnmowers** shall have one label as shown in Figure AA.8, on the  
179 blade (**cutting means**) housing. The label shall be located as close as possible to any **discharge opening**, or, if  
180 there is no **discharge opening**, in a position that is conspicuous to an operator in the normal operating position.

181 (c) **Cylinder lawnmowers.** Walk-behind **cylinder lawnmowers** shall have one label as shown in Figure AA.8, located  
182 as close to the centre of the **cutting width** of the blade (**cutting means**) as possible. However, in the absence of a  
183 suitable mounting surface near the centre of the **cutting width**, the label shall be placed on the nearest suitable  
184 mounting surface to the centre of the **cutting width**.

185 *Compliance is checked by inspection and by measurement.*

186 *Replace the existing text of the dashed item and NOTE 102 of 8.3 with the following new text:*

187 – if the mass of the machine is greater than 25 kg, either with “> 25 kg” or with the mass of  
188 the machine in kg.

189 NOTE 102: In Europe (EN IEC 62841-4-3) the following requirement applies:

190 *Replacement of the sixth dashed list item:*

191 – the mass of the machine in kg. For this requirement, the mass of the machine includes the mass of a **supply cord**  
192 with a length not less than 10 m, if any, in addition to the items specified in 5.17.

193 *Add the following NOTES to 8.3:*

194 NOTE 103 In Canada the United States of America, the sixth dashed list item is deleted.

195 NOTE 104 In Europe (EN IEC 62841-4-3), the following additional requirement applies:

196 For **rotary lawnmowers**, the **cutting means**, where replaceable during **user maintenance**, shall be marked to  
197 identify the part number(s) and the manufacturer, importer or supplier. This marking is not required to be clearly  
198 discernible from the outside of the machine.

199 *Add the following new NOTES to 8.14.1:*

200 NOTE 101 “General Machine Safety Warnings” are referred to as “General Power Tool Safety Warnings” in Part 1.

201 NOTE 102 In Canada and the United States of America, the following requirements apply:

202 **8.14.1 Replacement:**

203 The subjects of safety instructions are the warnings as given in 8.14.1.101 and any additional safety warning  
204 statements deemed necessary by the manufacturer. The warnings given in 8.14.1.101, if in English, shall be verbatim  
205 and in any other official language to be equivalent. The numbering of the safety instructions, as given in 8.14.1.101,  
206 is not mandatory and may be omitted or replaced by other sorting means such as bullets. The warnings given in  
207 8.14.1.101 may be separate from the instruction manual.

208 The term verbatim means word-for-word but permits the differences in spelling between English-speaking countries.

209 Format of all safety warnings must differentiate, by font, highlighting or similar means, the context of clauses as  
210 illustrated below.

211 All notes in the safety instructions are not to be printed, they are information for the designer of the manual.

212 The safety instructions as specified in 8.14.1.101 shall be given.

213 *Replace the existing text of 8.14.1 1 with the following new text:*

214 **8.14.1.1 Addition for item 2) c):**

215 For machines classified at least IPX4, the warning may be replaced as specified below.

216 c) **Do not operate the power tool in rain or wet conditions. This may increase the risk of**  
217 **electric shock.**

218 NOTE 101 In accordance with 8.14.1 of Part 1, it is possible to replace the term “power tool” with an appropriate  
219 term such as “machine” in the warning above.

220 *Add, after 8.14.1.1, the following new subclause:*

221 **8.14.1.2 Addition:**

222 NOTE 101 In Canada and the United States of America, the following requirements apply:

223 **8.14.1.2 Replacement:**

224 The order of the safety warnings shall be in accordance with either item a) or b) and in accordance with item c):

225 a) The order of the warnings shall remain as given in 8.14.1.101

226 b) The warnings given in 8.14.1.101 may be divided into the sections defined by the numbered subtitles and the  
227 associated warnings below the numbered subtitle. The order of warnings within each section shall remain as given  
228 in 8.14.1.101.229 When warnings are presented in this manner, the 1st sentence of the warnings in 8.14.1.101 and 8.14.1.3, if  
230 applicable, shall be modified as follows:231 –  WARNING Read all safety warnings designated by the  symbol and all instructions.

232 – The sections of the safety warnings shall be presented in the related topic of the instruction manual.

233 The instruction manual section titles shall have a format:

234 –  Lawnmower Safety Warnings – [Section subtitle]235 c) Any additional warnings deemed necessary by the manufacturer, shall not be inserted within any of the warnings  
236 given in 8.14.1.101. They may be either appended to the section(s) of the warnings given in 8.14.1.101 in accordance  
237 with the topic of the safety warnings or located in any other part of the instruction manual.238 *Add the following new text before the existing first paragraph of 8.14.1.101:*239 For the warnings below, the term “lawnmower” may be replaced by alternate wording (e.g.  
240 “machine”).241 *Replace the existing NOTE 102 in of 8.14.1.101 f) with the following new text:*242 NOTE 102 The warning in item f) above is omitted for machines that are not designed to be used with a **grass**  
243 **catcher**.244 *Add the following new item s) to 8.14.1.101:*245 a) **Hold the lawnmower by insulated gripping surfaces only, because the blade(s) may**  
246 **contact hidden wiring or its own cord. Blade(s) contacting a "live" wire may make**  
247 **exposed metal parts of the machine "live" and could give the operator an electric shock.**248 *Add the following new NOTE 103 to 8.14.1.101:*

249 NOTE 103 In Canada and the United States of America, the following requirements apply:

250 **8.14.1.101 Replacement:**251 **Lawnmower safety warnings**252 **WARNING Read all safety warnings, instructions, illustrations and specifications provided with this**  
253 **lawnmower. Failure to follow all instructions listed below may result in electric shock, fire and/or serious**  
254 **injury.**255 **Save all warnings and instructions for future reference.**256 **1) Work area safety**257 a) **To avoid bystander contact with the moving blade or a thrown object injury, keep the area of operation**  
258 **clear of all bystanders, particularly small children. Stop the lawnmower and any attachment(s) if anyone**  
259 **enters the area. Contact with the moving blade or thrown objects may result in serious personal injury or death.**260 b) **Only operate the lawnmower in daylight or good artificial light. Dark areas invite accidents.**261 c) **Do not operate lawnmowers in explosive atmospheres, such as in the presence of flammable liquids, gases**  
262 **or dust. Lawnmowers create sparks which may ignite the dust or fumes.**263 d) **Do not use the lawnmower in bad weather conditions, especially when there is a risk of lightning. This**  
264 **decreases the risk of being struck by lightning.**265 e) **Thoroughly inspect the area where the lawnmower is to be used and remove all stones, sticks, wires,**  
266 **bones, and other foreign objects. Thrown objects can cause personal injury.**

267 **2) Electrical safety**

268 a) **Lawnmower electrical plugs must match the outlet. Never modify the plug in any way. Do not use any**  
 269 **adapter plugs with earthed (grounded) lawnmowers. Unmodified plugs and matching outlets will reduce risk of**  
 270 **electric shock.**

271 b) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the lawnmower. Keep the**  
 272 **cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric**  
 273 **shock.**

274 c) **Keep the supply cord away from the cutting blades. A damaged supply cord may result in electric shock, fire**  
 275 **and/or serious injury.**

276 d) **Switch off and remove plug from mains if the cord is entangled or damaged. Entangled or damaged cords**  
 277 **can increase the risk of electric shock.**

278 e) **When operating a lawnmower outdoors, use an extension cord suitable for outdoor use. Use of a cord**  
 279 **suitable for outdoor use reduces the risk of electric shock.**

280 f) **Avoid body contact with earthed or grounded surfaces, such as metal fences or signs. There is an increased**  
 281 **risk of electric shock if your body is earthed or grounded.**

282 g) **Do not expose the lawnmower to rain or wet conditions. Water entering a lawnmower may increase the risk of**  
 283 **electric shock.**

284 NOTE 101 For machines classified at least IPX4, the words “expose the lawnmower to” in Item g) above can be  
 285 replaced by the words “operate the lawnmower in”.

286 h) **If operating a lawnmower in a damp location is unavoidable, use a residual current device (RCD) protected**  
 287 **supply. Use of an RCD reduces the risk of electric shock.**

288 NOTE 102 The term “residual current device (RCD)” in Item h) above can be replaced by the term “ground fault  
 289 circuit interrupter (GFCI)” or “earth leakage circuit breaker (ELCB)”.

290 **3) Personal safety**

291 a) **Use personal protective equipment. Always wear eye protection. Protective equipment will reduce personal**  
 292 **injuries.**

293 b) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving**  
 294 **parts. Loose clothes, jewellery or long hair can be caught in moving parts.**

295 c) **While operating the lawnmower, always wear long trousers. Exposed skin increases the likelihood of injury**  
 296 **from thrown objects.**

297 d) **While operating the lawnmower, always wear non-slip and protective footwear. Do not operate the**  
 298 **lawnmower when barefoot or wearing open sandals. This reduces the chance of injury to the feet from contact**  
 299 **with the moving blade.**

300 e) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source**  
 301 **and/or batteries, picking up or carrying the lawnmower. Carrying a lawnmower with your finger on the switch or**  
 302 **energising a lawnmower that has the switch on invites accidents.**

303 f) **Remove any adjusting key or wrench before turning the lawnmower on. A wrench or a key left attached to a**  
 304 **rotating part of the lawnmower may result in personal injury.**

305 g) **Keep proper footing and balance at all times. This enables better control of the lawnmower in unexpected**  
 306 **situations.**

307 h) **Stay alert, watch what you are doing and use common sense when operating a lawnmower. Do not use a**  
 308 **lawnmower while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention**  
 309 **while operating a lawnmower may result in serious personal injury.**

310 i) **Do not let familiarity gained from frequent use of the lawnmower allow you to become complacent and**  
 311 **ignore lawnmower safety principles. A careless action can cause severe injury within a fraction of a second.**

312 j) **To avoid operator blade contact or a thrown object injury, stay in the operator zone behind the lawnmower**  
 313 **handles. Blade contact or thrown objects may result in serious personal injury.**

314 k) **Do not touch blades and other hazardous moving parts while they are still in motion. This reduces the risk**  
 315 **of injury from moving parts.**

316 **4) Lawnmower use and care**

317 a) **Use the lawnmower and accessories in accordance with these instructions, taking into account the working**  
 318 **conditions and the work to be performed. Use of the lawnmower for operations different from those intended may**  
 319 **result in a hazardous situation.**

- 320 b) **Before using the lawnmower, always visually inspect to see that the blade and the blade assembly are**  
321 **properly secured and not worn or damaged.** *Loose, worn, or damaged parts may increase the risk of injury.*
- 322 c) **Before use, check the supply cord and any extension cord for signs of damage or aging. Do not use the**  
323 **lawnmower if the cord is damaged or worn. If the cord is damaged or worn during use, switch off the**  
324 **lawnmower and do not touch the cord before disconnecting it from the supply. A damaged supply cord or**  
325 **extension cord may result in electric shock, fire and/or serious injury.**
- 326 d) **Keep guards and other safety devices in place, properly mounted, and in working order. A guard or other**  
327 **safety device that is loose, damaged, or is not functioning correctly may result in personal injury.**
- 328 e) **Keep all cooling air inlets clear of debris. Blocked air inlets and debris may result in overheating or risk of fire.**
- 329 f) **Do not use the lawnmower if the switch does not turn it on and off. Any lawnmower that cannot be controlled**  
330 **with the switch is dangerous and must be repaired.**
- 331 g) **Do not operate the lawnmower in wet grass. Walk, never run. This reduces the risk of slipping and falling which**  
332 **may result in personal injury.**
- 333 h) **Do not operate the lawnmower on excessively steep slopes. This reduces the risk of loss of control, slipping**  
334 **and falling which may result in personal injury.**
- 335 i) **Do not force the lawnmower. Use the correct lawnmower for your application. The correct lawnmower will do**  
336 **the job better and safer at the rate for which it was designed.**
- 337 j) **Be aware of the lawnmower and attachment discharge direction and do not point the lawnmower discharge**  
338 **at anyone. Thrown objects can cause personal injury.**
- 339 k) **Use extreme caution when reversing or pulling the lawnmower towards you. Always be aware of your**  
340 **surroundings. This reduces the risk of tripping during operation.**
- 341 l) **When working on slopes, always be sure of your footing, always work across the face of slopes, never up**  
342 **or down, and exercise extreme caution when changing direction. This reduces the risk of loss of control, slipping**  
343 **and falling which may result in personal injury.**
- 344 m) **Disconnect the plug from the power source before making any adjustments, changing accessories, or**  
345 **storing the lawnmower. Such preventive safety measures reduce the risk of starting the lawnmower accidentally.**
- 346 n) **Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping**  
347 **surfaces do not allow for safe handling and control of the lawnmower in unexpected situations.**
- 348 o) **Check the grass catcher frequently for wear or deterioration. A worn or damaged grass catcher may increase**  
349 **the risk of personal injury.**
- 350 p) **Before removing the grass catcher, turn off the motor and wait until the blade(s) comes to a complete stop.**  
351 **The cutting blade(s) continues to rotate after the blade control is released. Never place any part of the body**  
352 **in the blade(s) area until you are certain the motor is off and the blade(s) has stopped rotating. Contact with**  
353 **the moving cutting blade(s) may result in serious personal injury.**
- 354 NOTE 103 It is possible to replace the term “catcher” in Items o) and p) above by an alternative term such as  
355 “collector” or “bag”.
- 356 NOTE 104 The warnings in Items o) and p) above are omitted for lawnmowers that can only be operated as a  
357 mulching lawnmower.
- 358 q) **Before unclogging the chute, turn off the motor, wait until the blade(s) comes to a complete stop and**  
359 **disconnect the power cord. The cutting blade(s) continues to rotate after the blade control is released. Never**  
360 **place any part of the body in the blade(s) area until you are certain the motor is off and the blade(s) has**  
361 **stopped rotating. Contact with the moving cutting blade(s) may result in serious personal injury.**
- 362 r) **Before cleaning or inspecting the lawnmower, disconnect the power cord, turn off the power switch and**  
363 **ensure the blade(s) and all moving parts have stopped. Accidental contact with the moving blade(s) and moving**  
364 **parts may result in personal injury.**
- 365 s) **Maintain the lawnmower and accessories. Check for misalignment or binding of moving parts, breakage of**  
366 **parts and any other condition that may affect the lawnmower’s operation. If damaged, have the lawnmower**  
367 **repaired before use. Many accidents are caused by poorly maintained lawnmowers.**
- 368 t) **Store idle lawnmowers out of the reach of children and do not allow persons unfamiliar with the lawnmower**  
369 **or these instructions to operate the lawnmower. Lawnmowers are dangerous in the hands of untrained users.**
- 370 **5) Service**
- 371 a) **Have your lawnmower serviced by a qualified repair person using only identical replacement parts. This**  
372 **will ensure that the safety of the lawnmower is maintained. Use of parts which do not meet the original equipment**  
373 **specifications may lead to improper performance and compromise safety.**