STIGA®

ST 1151 E

Type ST 515 E

SNOW THROWER	INSTRUCTION MANUAL..... EN
СНЕГОРИН	УПЪТВАНЕ ЗА УПОТРЕБА..... BG
ČISTAČ SNIJEGA	PRIRUČNIK S UPUTAMA..... BS
SNĚHOVÁ FRÉZA	INSTRUKTIONSMANUAL..... CS
SNESLYNGE	INSTRUKTIONSMANUAL..... DA
SCHNEERÄUMER	GEBRAUCHSANWEISUNG..... DE
QUITANIEVES	USO Y MANTENIMIENT..... ES
LUMEPUHUR	KASUTUSJUHEND..... ET
LUMILINKO	KÄYTTÖOPAS..... FI
CHASSE-NEIGE	MANUEL D'UTILISATION..... FR
RALICA ZA SNIJEG	PRIRUČNIK ZA UPORABU..... HR
HÓMARÓ	HASZNÁLATI UTASÍTÁS..... HU
SPAZZANEVE	MANUALE DI ISTRUZIONI..... IT
SNIEGO VALYTUVAS	VARTOJIMO INSTRUKCIJA..... LT
SNIEGA TĪRĪTĀJS	OPERATORA ROKASGRĀMATA..... LV
РАСЧИСТУВАЧ НА СНЕГ	УПАТСТВО ЗА УПОТРЕБА..... MK
SNEEUWRUIMER	GEBRUIKERSHANDLEIDINGNL..... NL
SNØSLYNGE	BRUKSANVISNING - VEDLIKEHOLD.....NO
ODŚNIEŻARKA	INSTRUKCJE OBSŁUGI..... PL
PLUG DE ZĂPADĂ	MANUAL DE INSTRUCȚIUNI..... RO
СНЕГООЧИСТИТЕЛЬ	РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ..... RU
SNEHOVÁ FRÉZA	NÁVOD NA POUŽITIE..... SK
SNEŽNI PLUG	PRIROČNIK Z NAVODILI..... SL
ČISTAČ SNEGA	PRIRUČNIK SA UPUTSTVIM..... SR
SNÖSLUNGA	BRUKSANVISNING OCH UNDERHÅLL..... SV

171501354/4 05/2017

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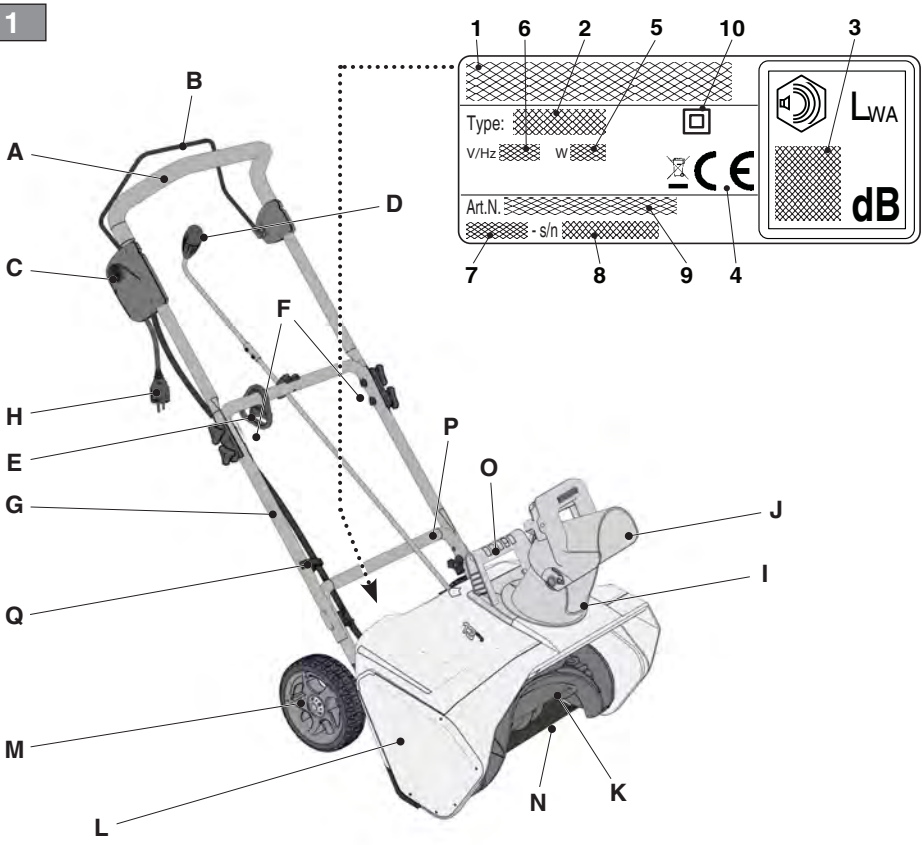

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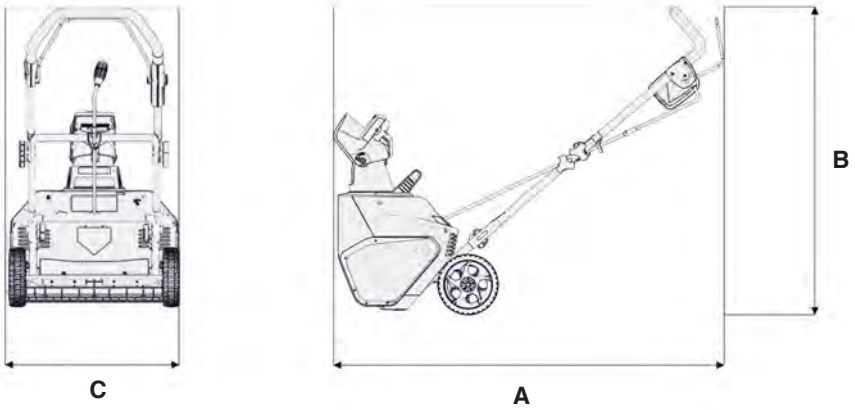

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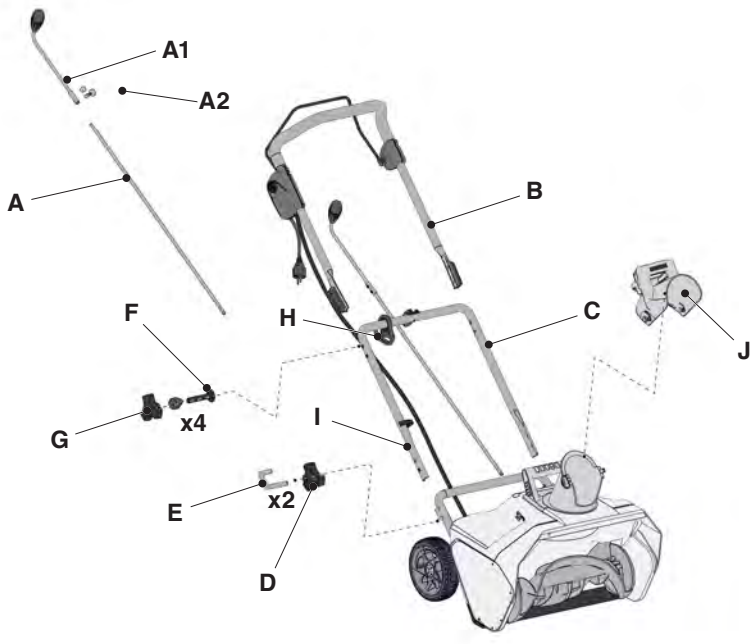

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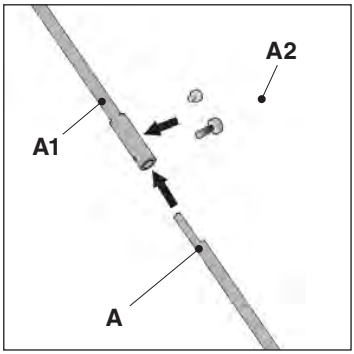

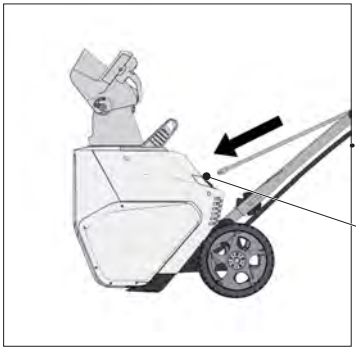

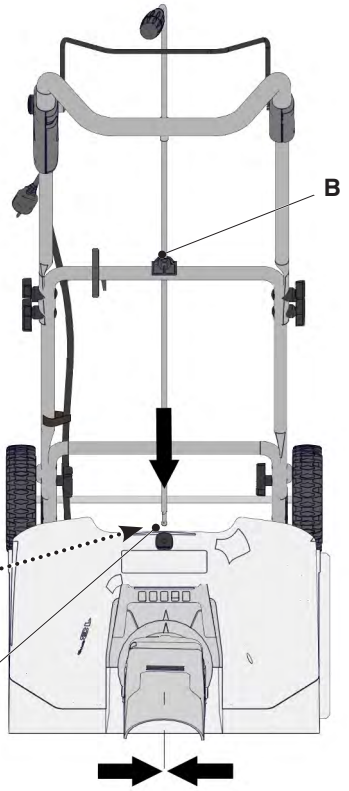

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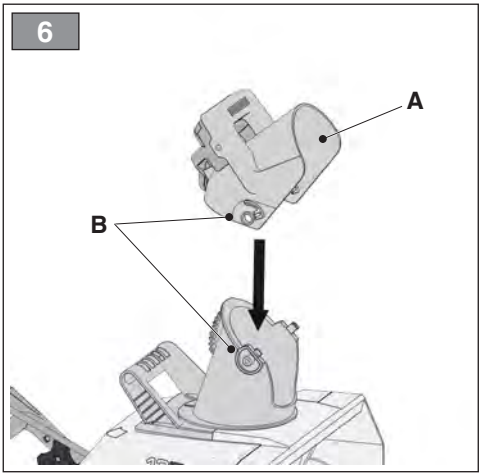

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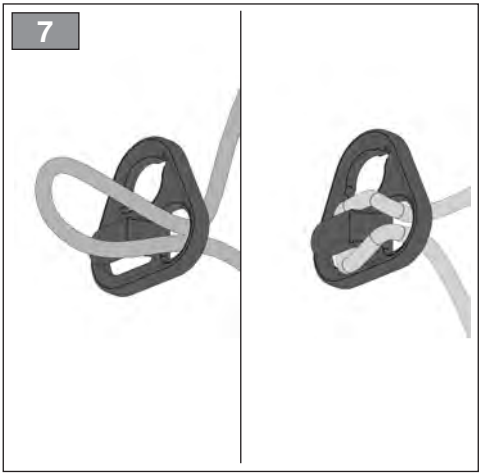

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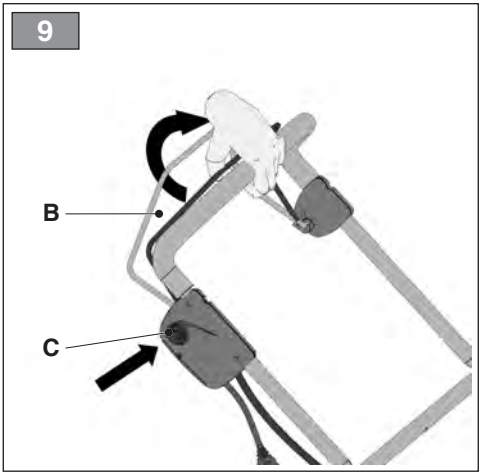

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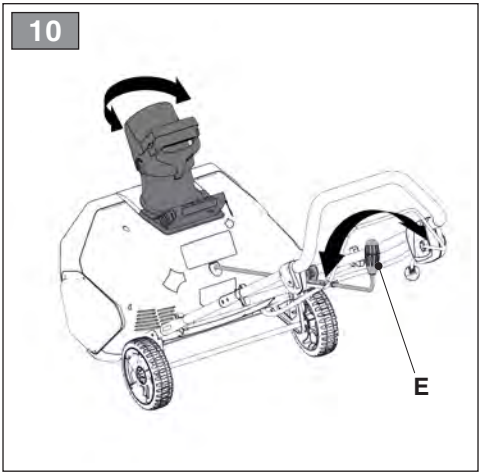

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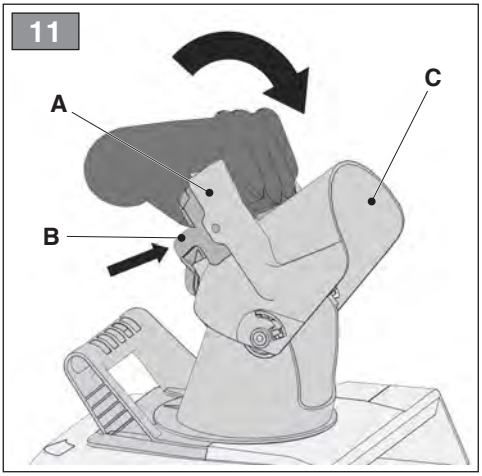

[1]	TECHNICAL DATA	type	ST 515 E
		model	ST 1151 E
[2]	Power voltage and frequency	V / Hz	220-240V / 50Hz
[3]	Power	kW	1,8
[4]	Engine rotations	rpm	2800 ± 10%
[5]	Working width	cm	50,8
[6]	Weight	kg	16,5
[7]	Maximum launch distance	m	5,5
[8]	Dimensions	Fig. 2	
[9]	A = Length	mm	1130
[10]	B = Height	mm	980
[11]	C = Width	mm	590
[12]	Measured acoustic power level	dB(A)	97
[13]	Uncertainty	dB(A)	3
[14]	Guaranteed acoustic power level	dB(A)	101
[15]	Sound pressure level	dB(A)	86
[16]	Uncertainty	dB(A)	3
[17]	Operator position vibration value	m/s^2	2,5
[18]	Uncertainty	m/s^2	1,5

[1] **BG - ТЕХНИЧЕСКИ ДАННИ**
[2] Напрежение и честота на захранване
[3] Мощност
[4] Обороти на двигателя
[5] Работна ширина
[6] Маса
[7] Максимално разстояние на изхвърляне
[8] Максимални размери
[9] A = Дължина
[10] B = Височина
[11] C = Ширина
[12] Измерено ниво на звукова мощност
[13] Несигурност
[14] Гарантирано ниво на звукова мощност
[15] Ниво на звуково налягане
[16] Несигурност
[17] Стойност на вибрации в мястото за управление
[18] Несигурност

[1] **BS - TEHNIČKI PODACI**
[2] Napon i frekvencija napajanja
[3] Snaga
[4] Okretaji motora
[5] Radna širina
[6] Masa
[7] Maksimalna udaljenost bacanja
[8] Dimenzije
[9] A = Dužina
[10] B = Visina
[11] C = Širina
[12] Izmjerena razina zvučne snage
[13] Nesigurnost
[14] Garantirana razina zvučne snage
[15] Razina zvučnog pritiska
[16] Nesigurnost
[17] Razina vibracija na mjestu vozača
[18] Nesigurnost

[1] **CS - TECHNICKÉ PARAMETRY**
[2] Napájecí napětí a frekvence
[3] Výkon
[4] Otáčky motoru
[5] Pracovní záběr
[6] Hmotnost
[7] Maximální vzdálenost vyhazování
[8] Vnější rozměry
[9] A = Délka
[10] B = Výška
[11] C = Šířka
[12] Naměřená úroveň akustického výkonu
[13] Nepřesnost měření
[14] Zaručená úroveň akustického výkonu
[15] Úroveň akustického tlaku
[16] Nepřesnost měření
[17] Hodnota vibrací na místě řidiče
[18] Nepřesnost měření

[1] **DA - TEKNISKE DATA**
[2] Forsyningsspænding og frekvens
[3] Effekt
[4] Motoromdrejninger
[5] Arbejdsbredde
[6] Vægt
[7] Maks. slyngningsafstand
[8] Maskinmål
[9] A = Længde
[10] B = Højde
[11] C = Bredde
[12] Målt lydeffektniveau
[13] Usikkerhed
[14] Garanteret lydeffektniveau
[15] Lydtryksniveau
[16] Usikkerhed
[17] Vibrationsniveau på førersædet
[18] Usikkerhed

[1] **DE - TECHNISCHE DATEN**
[2] Versorgungsspannung und -frequenz
[3] Leistung
[4] Motordrehzahl
[5] Arbeitsbreite
[6] Gewicht
[7] Maximaler Wurfabstand
[8] Abmessungen des Platzbedarfs
[9] A = Länge
[10] B = Höhe
[11] C = Breite
[12] Gemessener Schallleistungspegel
[13] Messungenauigkeit
[14] Garantierter Schallleistungspegel
[15] Schalldruckpegel
[16] Messungenauigkeit
[17] Vibrationswert am Fahrerplatz
[18] Messungenauigkeit

[1] **ES - DATOS TÉCNICOS**
[2] Tensión y frecuencia de alimentación
[3] Potencia
[4] Revoluciones motor
[5] Ancho de trabajo
[6] Masa
[7] Distancia de lanzamiento máxima
[8] Dimensiones totales
[9] A = Longitud
[10] B = Altura
[11] C = Anchura
[12] Nivel de potencia sonora medido
[13] Incertidumbre
[14] Nivel de potencia sonora garantizado
[15] Nivel de presión sonora
[16] Incertidumbre
[17] Valor de las vibraciones en el puesto de conducción
[18] Incertidumbre

[1] **ET - TEHNILISED ANDMED**
[2] Toitepinge ja -sagedus
[3] Võimsus
[4] Mootoripöörded
[5] Töölaius
[6] Mass
[7] Maksimaalne heitekaugus
[8] Mõõtmed
[9] A = Pikkus
[10] B = Kõrgus
[11] C = Laius
[12] Mõõdetud müravõimsuse tase
[13] Ebakindlus
[14] Garanteeritud müravõimsuse tase
[15] Helirõhu tase
[16] Ebakindlus
[17] Vibratsiooni suurus juhikohal
[18] Ebakindlus

[1] **FI - TEKNISET TIEDOT**
[2] Syöttöjännite ja -taajuus
[3] Teho
[4] Moottorin kierrosluku
[5] Työstöleveys
[6] Massa
[7] Maksimi linkoamisetäisyys
[8] Mitat
[9] A = Pituus
[10] B = Korkeus
[11] C = Leveys
[12] Mitattu äänitehotaso
[13] Epätarkkuus
[14] Taattu äänitehotaso
[15] Äänenpaineen taso
[16] Epätarkkuus
[17] Tärinäarvo kuljettajan paikalla
[18] Epätarkkuus

[1] **FR - CARACTÉRISTIQUES TECHNIQUES**
[2] Tension et fréquence d'alimentation
[3] Puissance
[4] Tours du moteur
[5] Largeur de travail
[6] Masse
[7] Distance de projection maximale
[8] Dimensions d'encombrement
[9] A = Longueur
[10] B = Hauteur
[11] C = Largeur
[12] Niveau de puissance sonore mesuré
[13] Incertitude
[14] Niveau de puissance sonore garanti
[15] Niveau de pression sonore
[16] Incertitude
[17] Valeur des vibrations au poste de conduite
[18] Incertitude

[1] **HR - TEHNIČKI PODACI**
[2] Napon i frekvencija napajanja
[3] Snaga
[4] Broj okretaja motora
[5] Radna širina
[6] Masa
[7] Maksimalna udaljenost izbacivanja
[8] Gabaritne dimenzije
[9] A = Dužina
[10] B = Visina
[11] C = Širina
[12] Izmjerena razina zvučne snage
[13] Mjerna nesigurnost
[14] Zajamčena razina zvučne snage
[15] Razina zvučnog tlaka
[16] Mjerna nesigurnost
[17] Vrijednost vibracija na vozačkom mjestu
[18] Mjerna nesigurnost

[1] **HU - MŰSZAKI ADATOK**
[2] Tápfeszültség és -frekvencia
[3] Teljesítmény
[4] Motor fordulatszáma
[5] Munkavégzési szélesség
[6] Tömeg
[7] Max. kidobási távolság
[8] Befoglaló méretek
[9] A = Hosszúság
[10] B = Magasság
[11] C = Szélesség
[12] Mért zajteljesítmény szint
[13] Mérési bizonytalanság
[14] Garantált zajteljesítmény szint
[15] Hangnyomásszint
[16] Mérési bizonytalanság
[17] A vezetőállásnál mért vibrációszint
[18] Mérési bizonytalanság

[1] **IT - DATI TECNICI**
[2] Tensione e frequenza di alimentazione
[3] Potenza
[4] Giri motore
[5] Larghezza di lavoro
[6] Massa
[7] Distanza di lancio massima
[8] Dimensioni di ingombro
[9] A = Lunghezza
[10] B = Altezza
[11] C = Larghezza
[12] Livello di potenza sonora misurato
[13] Incertezza
[14] Livello di potenza sonora garantito
[15] Livello di pressione sonora
[16] Incertezza
[17] Valore delle vibrazioni al posto di guida
[18] Incertezza

[1] **LT - TECHNINIAI DUOMENYS**
[2] Maitinimo įtampa ir dažnis
[3] Galia
[4] Variklio apsukos
[5] Darbo plotis
[6] Svoris
[7] Maksimalus metimo tolis
[8] Matmenys
[9] A = Ilgis
[10] B = Aukštis
[11] C = Plotis
[12] Išmatuotas garso galios lygis
[13] Paklaida
[14] Garantuotas garso galios lygis
[15] Garso slėgio lygis
[16] Paklaida
[17] Vibracijų lygis, sėdynė
[18] Paklaida

[1] **LV - TEHNISKIE DATI**
[2] Barošanas spriegums un frekvence
[3] Jauda
[4] Dzinēja apgriezieni
[5] Darba platums
[6] Masa
[7] Maksimālais izmešanas attālums
[8] Gabarīti
[9] A = Garums
[10] B = Augstums
[11] C = Platums
[12] Izmērītais skaņas intensitātes līmenis
[13] Kļūda
[14] Garantētais skaņas intensitātes līmenis
[15] Skaņas spiediena līmenis
[16] Kļūda
[17] Vibrāciju līmenis vadītāja vietā
[18] Kļūda

[1] **MK - ТЕХНИЧКИ ПОДАТОЦИ**
[2] Волтажа и вид на напојување
[3] Моќност
[4] Вртежи на моторот
[5] Ширина на работа
[6] Тежина
[7] Далечина за максимално отфрлање
[8] Димензии на пречка
[9] A = Должина
[10] Б = Висина
[11] B = Ширина
[12] Измерено ниво на бучава
[13] Отстапување
[14] Гарантирано ниво на бучава
[15] Ниво на звучен притисок
[16] Отстапување
[17] Вредност на вибрации на местото на управување
[18] Отстапување

[1] **NL - TECHNISCHE GEGEVENS**
[2] Spanning en frequentie voeding
[3] Vermogen
[4] Toeren motor
[5] Werkbreedte
[6] Massa
[7] Maximale schietafstand
[8] Afmetingen
[9] A = Lengte
[10] B = Hoogte
[11] C = Breedte
[12] Gemeten akoestisch vermogen
[13] Onzekerheid
[14] Gewaarborgd akoestisch vermogen
[15] Niveau geluidsdruk
[16] Onzekerheid
[17] Niveau trillingen op de bestuurdersplaats
[18] Onzekerheid

[1] **NO - TEKNISKE DATA**
[2] Matespenning og -frekvens
[3] Ytelse
[4] Motoromdreininger
[5] Arbeidsbredde
[6] Vekt
[7] Maks. rekkevidde for utkast
[8] Totale mål
[9] A = Lengde
[10] B = Høyde
[11] C = Bredde
[12] Målt lydeffektnivå
[13] Usikkerhet
[14] Garantert lydeffektnivå
[15] Lydtrykknivå
[16] Usikkerhet
[17] Vibrasjonsnivå ved førerplassen
[18] Usikkerhet

[1] **PL - DANE TECHNICZNE**
[2] Napięcie i częstotliwość zasilania
[3] Moc
[4] Obroty silnika
[5] Zasięg prac
[6] Masa
[7] Odległość maksymalna odrzutu
[8] Wymiary ogólne
[9] A = Długość
[10] B = Wysokość
[11] C = Szerokość
[12] Pomiar poziomu mocy akustycznej
[13] Niepewność pomiaru
[14] Gwarantowany poziom mocy akustycznej
[15] Poziom ciśnienia akustycznego
[16] Niepewność pomiaru
[17] Poziom drgań na stanowisku kierowcy
[18] Niepewność pomiaru

[1] **RO - DATE TEHNICE**
[2] Tensiunea şi frecvenţa de alimentare
[3] Putere
[4] Turaţii motor
[5] Lăţime de lucru
[6] Masă
[7] Distanţă maximă de lansare
[8] Dimensiuni de gabarit
[9] A = Lungime
[10] B = Înălţime
[11] C = Lăţime
[12] Nivel de putere sonoră măsurat
[13] Nesiguranţă
[14] Nivel de putere sonoră garantat
[15] Nivel de presiune sonoră
[16] Nesiguranţă
[17] Valoarea vibraţiilor la locul conducătorului
[18] Nesiguranţă

[1] **RU - ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ**
[2] Напряжение и частота питания
[3] Мощность
[4] Число оборотов двигателя
[5] Ширина рабочей зоны
[6] Масса
[7] Дальность отброса снега
[8] Габаритные размеры
[9] A = Длина
[10] B = Высота
[11] C = Ширина
[12] Измеренный уровень звуковой мощности
[13] Погрешность
[14] Гарантируемый уровень звуковой мощности
[15] Уровень звукового давления
[16] Погрешность
[17] Уровень вибрации на месте водителя
[18] Погрешность

[1] **SK - TECHNICKÉ PARAMETRE**
[2] Napájecí napětí a frekvence
[3] Výkon
[4] Otáčky motoru
[5] Pracovní záběr
[6] Hmotnost
[7] Maximální vzdálenost vyhazování
[8] Vnější rozměry
[9] A = Délka
[10] B = Výška
[11] C = Šířka
[12] Naměřená úroveň akustického výkonu
[13] Nepřesnost měření
[14] Zaručená úroveň akustického výkonu
[15] Úroveň akustického tlaku
[16] Nepřesnost měření
[17] Hodnota vibrací na místě řidiče
[18] Nepřesnost měření

[1] **SL - TEHNIČNI PODATKI**
[2] Napetost in frekvenca električnega napajanja
[3] Moč
[4] Vrtljaji motorja
[5] Delovna širina
[6] Masa
[7] Maksimalna dolžina izmeta
[8] Dimenzije
[9] A = Dolžina
[10] B = Višina
[11] C = Širina
[12] Izmerjena raven zvočne moči
[13] Negotovost
[14] Zajamčena raven zvočne moči
[15] Raven zvočnega tlaka
[16] Negotovost
[17] Stopnja vibracij na upravljavčevem mestu
[18] Negotovost

[1] **SR - TEHNIČKI PODACI**
[2] Napon i frekvencija napajanja
[3] Snaga
[4] Obrtaji motora
[5] Radna širina
[6] Masa
[7] Maksimalna udaljnost bacanja
[8] Dimenzije
[9] A = Dužina
[10] B = Visina
[11] C = Širina
[12] Izmereni nivo zvučne snage
[13] Nesigurnost
[14] Garantovani nivo zvučne snage
[15] Nivo zvučnog pritiska
[16] Nesigurnost
[17] Vrednost vibracija na mestu vozača
[18] Nesigurnost

[1] **SV - TEKNISKA DATAI**
[2] Drivspänning och frekvens
[3] Effekt
[4] Motorvarvtal
[5] Arbetsbredd
[6] Vikt
[7] Maximal kastlängd
[8] Mått
[9] A = längd
[10] B = höjd
[11] C = bredd
[12] Uppmätt ljudeffektnivå
[13] Osäkerhet
[14] Garanterad ljudeffektnivå
[15] Ljudtrycksnivå
[16] Osäkerhet
[17] Vibrationsnivå på manöverhandtag
[18] Osäkerhet

WARNING!: READ THOROUGHLY THE INSTRUCTION BOOKLET BEFORE USING THE MACHINE. Keep for future reference

TABLE OF CONTENTS

1. GENERAL INFORMATION

1.1 HOW TO READ THE MANUAL

Some paragraphs in the manual contain important information regarding safety and operation and are emphasized in this manner:

NOTE *or* **IMPORTANT** *these give details or further information on what has already been said, and aim to prevent damage to the machine.*

The ⚠ symbol highlights danger. Non-compliance with the warning could lead to personal and/or third party injury and or damage.

The paragraphs highlighted in a square with grey spots indicate the optional characteristics not on all models documented in this manual. Check if the characteristic is on this model.

Whenever reference is made to a position on the machine "front", "back", "left" or "right" hand side, this is determined from where the operator is driving.

1.2 REFERENCES

1.2.1 Figures

The figures in these instructions for use are numbered 1, 2, 3, etc.
Components shown in the figures are marked A, B, C, etc.
A reference to component C in figure 2 is written: “See fig. 2.C” or simply “(Fig. 2.C)”.
The figures are given as a guide only. The actual parts may vary from those shown.

1.2.2 Titles

The manual is divided into chapters and paragraphs. The title of paragraph “2.1 Training” is a sub-title of “2. Safety regulations". References to titles or paragraphs are marked with the abbreviation chap. or par. and the relevant number. Example: “chap. 2” o “par. 2.1”.

2. SAFETY REGULATIONS

2.1 TRAINING

⚠ Read these instructions carefully before using the machine.

⚠ Become acquainted with the controls and the proper use of the machine. Learn how to stop the motor quickly. Failure to follow the warnings and instructions may result in fire and/ or serious injury. Save all warnings and instructions for future reference.

- Never allow children or persons unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instructions concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Never use the machine if the user is tired or unwell, or has taken medicine, drugs, alcohol or any substances which may slow his reflexes and compromise his judgement.
- Bear in mind that the operator or user is responsible for accidents or unexpected events occurring to other people or their property. It is the user's responsibility to assess the potential risk of the area where work is to be carried out, and to take all the necessary precautions to ensure his own safety and that of others, particularly on slopes or rough, slippery and unstable ground.

2.2 PREPARATION

Individual Protection Devices (IPD)

- Do not use the snow thrower without wearing adequate clothing.
- Wear footwear that enables good grip on slippery surfaces.
- Always wear protective goggles or a visor during use, maintenance or repairs. The operation of any powered machine can result in foreign objects being thrown into the eyes.
- Always use noise-proof hearing protectors.

Work area/Machine

- Check the area to clean well and remove any obvious foreign bodies. E.g. all doormats, sleds, boards, wires, etc.
- Before starting the motor, check you have disconnected all the commands.
- Let engine and the snow thrower adjust to outdoor temperatures before starting to clear snow.

Power supply

- Before each operation, check the power supply cable and extension are not damaged and are not showing signs of wear or aging.
- Never use the machine if the power supply cable or extension are damaged or worn. A damaged or worn cable can cause contact with powered parts.
- Connect the snow thrower to electricity sockets that are earthed. The earthing must trigger at 30 mA max. Connect the snow thrower to a cable certified for external use.
- Check the mains voltage corresponds to the power supply voltage.
- Permanent connection of any electrical device to the building mains must be carried out by a qualified electrician, in compliance with the standards in force. Improper connection can cause serious personal harm, including death.
- The machine plug must be compatible with the current socket. Never change the plug. Do not use adaptors with machinery equipped with an earthing. Non-modified plugs that are suitable for the sockets reduce the risk of electric shock.
- Avoid body contact with the earthed surfaces, such as tubing, radiators, kitchens, fridges. The risk of electric shock increases if your body comes in contact with earthed surfaces.

2.3 DURING OPERATION

Work Area

- Do not use the machine in environments at risk of explosion, in the presence of flammable liquids, gas or powder. Electrical contacts and mechanical friction can generate sparks that can ignite the powder or vapours.
- Work only in daylight or with good artificial light in good visibility conditions.
- Keep persons, children and animals away from the working area. Get another adult to keep the children under supervision.
- Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards.
- Look out for traffic when using the machine near the road.

Behaviour

- Do not place the discharge chute against the wind, or at people, animals, vehicles, houses and anything else that could be damaged by the snow or by objects hidden in the snow. Never allow anyone in front of the unit.
- Never use the snow thrower near fences, cars, windows, glass enclosures, etc. without having first adjusted the deflector on the discharge chute.
- Keep hands and feet away from rotating parts. Always keep your distance from the snow discharge chute.
- If the snow thrower strikes foreign bodies or displays anomalous vibrations, disconnect the machine from the electrical mains, wait the

moving parts stop and carefully inspect the machine to check there is no damage. Vibrations are normally synonymous with a problem. Repair any damage before re-using the machine.
- Before leaving the machine, disconnect all the commands and disconnect from the electrical mains socket.
- Before cleaning, repairs or inspections, always check the rotating units have stopped, controls are disengaged and the plug is disconnected from the electrical mains.
- Never operate the snow thrower at high transport speeds on slippery surfaces. Use care when reversing. Look behind you to make sure there are no obstacles before and during operations in reverse gear.
- Disengage power to the auger when snow thrower is transported or not in use.
- Always be sure of your footing, and keep a firm hold on the handle. Walk, never run!
- Keep the extension cable far from the auger. The auger can damage the cable and cause contact with powered parts.

Use limitations
- Do not use the machine sideways on a slope. Always move from top to bottom, then from bottom to top. Exercise caution when changing direction on a slope. Avoid steep slopes.
- Do not use the machine if the guards are insufficient or if the safety devices are not correctly positioned.
- Never disengage or tamper with the safety systems.
- Do not overload the machine by driving it too fast.
- Do not use the machine in bad weather conditions, especially when there is risk of lightening.
- Do not place hands inside the chute or the auger without firstly disconnecting the electrical mains socket.

2.4 MAINTENANCE, STORAGE AND TRANSPORT

Ensure regular maintenance and correct storage to maintain machine safety.

⚠ Before cleaning or doing maintenance work, disconnect the machine from the electrical mains and read the relevant instructions. Wear proper clothing and protective gloves whenever your hands are at risk.

⚠ Faulty or worn-out parts must always be replaced and never repaired. Only use original spare parts: the use or non-original and/ or incorrectly fitted parts will compromise the safety of the machine, may cause accidents or personal injuries for which the Manufacturer is under no circumstance liable or responsible.

Maintenance
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similar qualified person in order to avoid a hazard.
- Keep the cable far from heat, oil, sharp edges or moving parts. A damaged

or snagged cable increases the risk of electric shock.

Storage

- Run the machine a few minutes after throwing snow to prevent freeze-up of the collector/impeller.
- Let the motor cool down before storing the snow thrower indoors.
- Always refer to owner's guide instructions for important details if the snowthrower is to be stored for an extended period.

Transport

Each time you have to move, lift, transport or tilt the machine:

- Wear heavy work gloves.
- Hold the machine in the points offering a safe grip, taking into account the weight and its division.
- Use an adequate number of people for the weight of the machine and the characteristics of the transport vehicle.
- During transport, adequately secure the machine to the vehicle.

2.5 ENVIRONMENTAL PROTECTION

Safeguarding the environment must be a relevant and priority aspect of machine use, of benefit to the community and the environment we live in

- Avoid being a disturbance to the neighbourhood.
- Adhere strictly to the local regulations governing the disposal of packaging, oil, fuel, filters, damaged parts or any other element which may have an impact on the environment; this waste should not be disposed of along with standard household waste, but must be disposed of separately and sent to special waste disposal facilities for handling and recycling.
- When the machine is withdrawn from service, do not dump it in the environment, but take it to a waste disposal facility in accordance with the local regulations in force.

2.6 RECYCLING

Do not throw electrical equipment away with domestic waste. According to the European Directive 2012/19/EC on electrical and electronic equipment waste and its implementation in compliance with national standards, old electrical equipment must be collected separately, for eco-compatible recycling. If electrical equipment is disposed of in a landfill or in the ground, the harmful substances can reach the aquifer and enter the food chain, damaging your health and wellbeing. For further information on disposing of this product, contact the competent authority for the disposal of domestic waste or your deale

3. GETTING TO KNOW THE MACHINE

3.1 DESCRIPTION OF THE MACHINE AND PLANNED USE

This machine is a snow thrower.
The machine is electrically powered.
It is equipped with a power supply unit

with a plug which must be connected to a 230 V c.a. current socket.
The electrical motor is activated by a starter lever on the handle, activating the clearing auger. The operator can drive the machine by holding it by the handle where the starter lever is located, always standing upright behind the machine.

3.1.1 Intended use

This machine has been designed and built to remove and clear away snow from pavements, gardens, drives and other ground-level surfaces. The snow thrower must only be used to remove snow.

3.1.2 Improper use

Any other usage not in keeping with the above-mentioned ones may be hazardous and harm persons and/or damage things. Examples of improper use may include, but are not limited to:

- use of the machine on surfaces above ground level, such as roofs on houses, garages, porticoes or other structures or buildings.
- Activate the auger in the presence of materials other than snow (e.g. soil, grass, pebbles, etc.),
- Pulling or pushing loads.
- Do not use the cable to transport the machine, pull it or disconnect it from the socket.
- Do not carry passengers.

IMPORTANT *Improper use of the machine will invalidate the warranty, relieve the Manufacturer from all liabilities, and the user will consequently be liable for all and any damage or injury to himself or others.*

3.1.3 User types

This machine is intended for use by consumers, i.e. non-professional operators. The machine is intended for "DIY" use only.

IMPORTANT *The machine must be used by one operator.*

3.2 SAFETY SIGNS

The machine has various symbols on it (fig. 3). They are used to remind the operator of the behaviour to follow to use it with the necessary attention and caution.
Meaning of symbols:

DOUBLE INSULATED - Class II: Device in which protection against electric shocks is not based exclusively on the main insulation,but also on additional safety measures such as double or reinforced insulation. These measures do not include earthing devices and do not depend on the installation conditions

WARNING! In the event of non-compliance with regulations, the risk of death and/or damage to people or property exists.

Read the instructions before operating the machine.

DANGER! Thrown objects. Do not turn the discharge chute towards onlookers or animals.

DANGER! Keep people, children and animals away from the work area.

DANGER! Rotor turning. Always keep away from the snow discharge opening.

DANGER! Keep hands and feet away from rotating parts.

DANGER! Never put your hands inside the discharge chute when the auger is in motion. Stop the engine before unclogging the discharge chute.

DANGER! Always use hearing protectors

DANGER! Wear eye protection.

DANGER! Before carrying out maintenance on the machine, disconnect the plug from the socket.

IMPORTANT *Any damaged or illegible decals must be replaced. Order replacement decals from an authorised assistance centre.*

3.3 IDENTIFICATION LABEL

The identification label holds the following data (fig. 1):

1. Manufacturer's address
2. Type of machine
3. Sound power level
4. CE conformity marking

5. Motor power
6. Motor displacement
7. Month / Year of manufacture
8. Serial number
9. Article code
10. Electrical protection rating

Write the identification data of the machine in the specific space on the label on the back of the cover page

IMPORTANT *Use the identification names on the identification label of the product.*

IMPORTANT *Use these means of identification whenever you contact an authorized service workshop.*

IMPORTANT *The example of the declaration of conformity can be found on the last pages of the manual.*

3.4 MAIN COMPONENTS

The machine is made up of the following main components (fig. 1):

A. Handle
B. Starter lever
C. Starter lever release
D. Chute adjustment handle
E. Extension cable support
F. Handle pivot closure
G. Central handle
H. Power plug
I. Exhaust chute
J. Deflector
K. Auger
L. Auger compartment
M. Wheel
N. Lower blade
O. Transport handle
P. Lower part of handle
Q. Cable gland

4. ASSEMBLY

For storage and transport purposes, some components of the machine are not installed in the factory and have to be assembled after unpacking. Follow the instructions below.

4.1 ASSEMBLY COMPONENTS

The packaging holds the components needed for assembly (fig. 4) listed in the following table:

Component	Fig.	N.
Snow thrower	4	1
Discharge chute adjustment handle	4.A	1
Handle	4.B	1
Handle fitting	4.C	1
Spacers and screws for securing the handle in place	4.D, 4.E	2
Spacers and screws for securing the handle in place	4.F, 4.G	4
Extension cable support	4.H	1
Cable gland to handle	4.I	1
Deflector	4.J	1
Instructions	-	1

4.2 UNPACKING

1. Cautiously open the packaging, paying attention not to lose components.
2. Consult the documentation in the box, including these instructions.
3. Remove all the unassembled parts from the box.
4. Lift the snow thrower from the box.
5. Dispose of the box and packaging in compliance with local regulations.

4.3 HANDLE ASSEMBLY

1. Assemble the central part of the handle (fig. 4.C) on the snow thrower (lower part of handle), fastening it with screws (fig. 4.D, 4.E) on both sides.
2. Position the upper handle (fig. 4.B) on the central one and fasten it with the specific screws and fastenings (fig. 4.G, 4.F).
3. Fasten the electrical energy cable in place with the specific cable gland (fig. 4.I).

4.4 DISCHARGE CHUTE ADJUSTMENT HANDLE ASSEMBLY

1. Assemble the handle (fig. 5.A1) using the specific extension shaft (fig. 5.A), fastening it in place with the 2 screws (fig. 5.A2). Make sure the holes of the shaft (fig. 5.A) and joint (fig. 5.A1) are aligned.
2. Insert the 2 screws in the holes and fix
3. Pass the handle obtained in the specific lower handle support (fig. 5.B).
4. Insert the end of the handle in the specific coupling hole on the chute, keeping it straight and with the grip upwards (fig. 5.C).
5. Check the discharge chute by turning it entirely in both directions. The chute must freely rotate (fig. 10).

4.5 DEFLECTOR ASSEMBLY

1. Insert the deflector on the discharge duct in the upright position (fig. 6.A).
2. Fit the tabs on both sides in the rotation eyelets (fig. 6.B).
3. Push until the pins fit into the specific holes with a click.

4.6 CABLE GLAND ASSEMBLY

Insert the cable in the cable gland (fig. 4.I) and fit it on the intermediate handle.

5. CONTROLS

5.1 STARTER LEVER

Used to start and stop the motor.
- Start: Press the lock button (fig. 9.C) and pull the starter lever (fig. 9.B).
- Stop: release the starter lever (fig. 9.B).

5.2 STARTER LEVER LOCK

It prevents accidental activation of the starter lever. Press the button (fig. 9.C) to release the starter lever.

5.3 DISCHARGE CHUTE ADJUSTMENT HANDLE

This controls rotation of the discharge chute so that snow discharge can be aimed in the required direction. Turn the handle (fig. 10.E) clockwise/anti-clockwise to adjust the chute.

5.4 DEFLECTOR ADJUSTMENT

Hold the handle (fig. 11.A) and press it to release the deflector lock (fig. 11.B) to enable deflector regulation (fig. 11.C). Move the handle forward/back to lower/lift the deflector, pulling the handle. Once the deflector is brought to the desired position, releasing your grip blocks the deflector (click).

6. USING THE MACHINE

IMPORTANT *The safety regulations to follow during machine use are described in chap. 2. Strictly comply with these instructions to avoid serious risks or hazards.*

6.1 PREPARATION

Using an extension, connect the snow thrower to a power socket.
Insert the extension cable in the specific support (fig. 7) to avoid unwanted disconnections and connect it to the power socket (fig. 8).
Check the auger has not already taken in snow in the start position.

NOTE *Before starting to clear the snow, silicone spray should be applied to the auger to avoid ice formation on the rotating units.*

6.2 SAFETY CHECKS

After start-up and before using the machine, it is essential to run the following safety tests. Check the results of the safety checks correspond to those in the table.

⚠ ***Always carry out the safety checks before use.***

6.2.1 General safety and auger functionality check

Object	Result
Electrical cables.	All insulation intact. No mechanical damage.
Press the release button (fig. 9.C). Press the starter lever.	The motor starts and the auger starts to rotate.
Test driving	No abnormal vibrations. No abnormal sound.
Release the starter lever.	The motor and auger stop immediately.

⚠ ***If any of the results fails to match the indications provided in the following table, do not use the machine! Take it to a service centre to be checked and repaired if necessary.***

6.3 START-UP / OPERATION

⚠ ***The auger starts to rotate when the snow thrower starts. Keep people a safe distance away and check the auger is not touching stones or objects that could be launched.***

6.3.1 Departure

1. Tilt the snow thrower slightly back and lift the auger slightly off the ground.

2. Press and keep the starter lever release pressed (fig. 9.C).
3. To start, pull the starter lever (fig. 9.B).
4. Release the starter lever.

⚠ ***Do not attempt to operate the motor if the auger is blocked. The machine is equipped with an automatic "Motor saving" protection. When engaged, wait a few seconds before starting the motor again.***

6.3.2 Operation

Lower the auger towards the ground and start to remove snow.
Drag the cable behind the machine to avoid tripping or coupling objects in the operating area of the snow thrower.

⚠ ***When operating, never pass the electric cable over the machine.***

⚠ ***If the electric cable is damaged during operation, proceed as follows:***
- *Stop the machine.*
- *Move away from the machine in the opposite direction of the damaged point on the cable.*
- *Disconnect the power cable from the socket.*

⚠ ***Always stop the motor before proceeding with release operations.***

6.4 STOP

To stop the machine, release the starter lever (fig. 9.B).

IMPORTANT *If you must leave the machine unattended, always disconnect it from the electrical mains.*

6.5 ADVICE FOR OPERATION

- Snow is removed more easily when it is still fresh. Pass back over the already cleared zones to remove snow residue.
- If possible, clear the snow in the direction of the wind. Check the distance and the direction of the removed snow jet.
- In strong winds, lower the deflector to direct the discharged snow towards the ground, reducing the likelihood of the wind transporting the snow to the wrong areas.
- Once you have finished work, leave the machine running for a few minutes to prevent ice from forming in the discharge chute.

6.5.1 Dry and normal snow

Snow up to 20 cm can be quickly removed by proceeding to evenly clear it away. For deeper or built up snow, reduce the speed and let the machine work at its own rhythm.

6.5.2 Wet or compact snow

Slowly move forward. Avoid using the lower blade to remove compact snow and ice.

IMPORTANT *Heavy use of the machine with wet or compact snow can cause faults to the auger compartment.*

6.6 AFTER OPERATION

- Immediately disconnect the plug from the electrical mains.
- Clean the remaining snow on the machine with a brush (par. 7.2).
- Move all the controls forward and back a few times.
- Tighten any nuts and bolts that are loosened during operation.
- Check there are no loose or damaged components. If necessary, replace the damaged components.

⚠ ***Do not cover the machine when the motor is still warm.***

7. MAINTENANCE

7.1 GENERAL INFORMATION

IMPORTANT *The safety regulations to follow during machine use are described in par. 2.4. Strictly comply with these instructions to avoid serious risks or hazards.*

⚠ ***All service and all maintenance checks must be carried out on a stationary machine with the motor switched off. Before any maintenance operation, switch off the motor and remove the key from the compartment.***

⚠ ***Wear adequate clothing, gloves and goggles before carrying out any maintenance.***

- The frequency and types of maintenance are summarised in the "Maintenance Table". The table will help you maintain your machine's safety and performance.

It summarises the main interventions to be made and the frequency applicable to each of them. Carry out the relevant intervention according to the first deadline.
- The use of non-genuine spare parts and accessories could adversely affect machine operation and safety. The manufacturer shall decline all liability in the event of injuries or damages caused by such parts.
- Genuine spare parts are supplied by authorized assistance workshops and dealers.

IMPORTANT *All the maintenance and adjustment operations not described herein must be carried out by your dealer or Authorised Service Centre.*

7.2 CLEANING

⚠ ***Carry out cleaning operations with the machine switched off. Do not try to remove snow from the discharge without firstly:***
- ***Releasing the auger control..***
- ***Turning off the motor.***

Always clean the machine after use.
To clean the machine adhere to the instructions provided below:
- Stop the motor
- Disconnect the electric cable from the snow thrower and disconnect the extension from the electrical mains.
- Cool the snow thrower.
- Clean the snow thrower internally and externally with an adequate brush and/or compressed air.

⚠ ***Never wash the snow thrower with water, otherwise the electric device will be damaged causing the risk of electrocution.***

8. STORAGE

When you intend to put your machine away for more than 30 days:

1. Clean the snow thrower thoroughly.
2. Check for any damage. If necessary, see to the necessary repairs.
3. If the paintwork is damaged, touch it up to prevent rust.
4. Protect any exposed metal surfaces from rust.

9. ASSISTANCE AND REPAIRS

This manual provides all the necessary information to run the machine and for correct basic maintenance operations which can be performed by the user. Any regulations and maintenance operations not described herein must be carried out by your Dealer or Authorized Service Centre, which have the necessary knowledge and equipment to ensure that the work is carried out correctly, maintaining the correct degree of safety and the original operating conditions of the machine. Operations carried out in an inadequate structure or by unqualified people will make all forms of warranty null and void, as well as any obligations of the manufacturer.
Only authorized service workshops carry out guaranteed repairs and maintenance.
- The authorized service workshops only use genuine spare parts. Genuine spare parts and accessories have been designed specifically for machines.
- Non-genuine spare parts and accessories are not approved. Use of non-genuine spare parts and accessories cause the warranty to expire.
- It is advisable to send your machine once a year to an authorized service workshop for servicing, assistance and safety device inspection.

10. WARRANTY COVERAGE

The warranty covers all material and manufacturing defects. The user must follow all the instructions provided in the accompanying documentation.
The warranty does not cover damages caused by:
- Failure to become familiar with the documentation accompanying the machine.
- Carelessness.
- Incorrect or prohibited use or assembly.
- Use of non-genuine spare parts.
- Use of accessories not supplied or approved by the manufacturer.

The warranty does not cover:
- Normal wear and tear of consumables, such as drive belts, drills, headlights, wheels, bolts and wires.
- Normal wear and tear.
- Motors. Motors are covered by the warranty provided by the relative manufacturer in compliance with the specified terms and conditions.

The purchaser is protected by his own national legislation. The purchaser's rights envisaged by the national laws in his own country are not in any way restricted by this warranty.

11. MAINTENANCE TABLE

Intervention	Frequency	Paragraph
Safety checks/check controls	Before each use	6.2
Always check the electric devices are intact and working properly	Before each use	6.2
Check the auger rotates freely	Before each use	6.2.1
Apply silicone spray on the auger, to avoid ice formation	Before each use	6.3
Check all the screw connections are tight. Tighten, if necessary.	Before and after each use	4
Check the starter lever is only activated on release of the disengaged starter lever	Before each use	5.2
General cleaning and inspection	At the end of each operation	7.2

12. PROBLEM IDENTIFICATION

PROBLEM	PROBABLE CAUSE	REMEDY
1. No start	The electric cable is not connected	Connect the snow thrower plug and the extension to the mains
	The electric cable is destroyed/faulty	Replace the electric cable
	Overload protection activated	Wait a few seconds for automatic reset.
	The auger is on and the motor cannot start.	Immediately release the start control and remove the obstacle. Try and switch on again.
2. The motor barely rotates	Auger or discharge chute obstructed, blocked by obstacles or damaged.	Clean the auger and chute. Remove any dirt or foreign bodies. Replace if damaged.
	The capacitor is faulty.	Call assistance or the dealer.
3. The motor stops suddenly	Differential switch activated	Possible damage to the power cable. Check the cable, call assistance or the dealer if necessary.
		Damage to motor. Call assistance or the dealer.
	Overload protection activated	Wait 10 minutes and try again.
4. Excessive vibrations	Loose parts or auger or rotor damaged.	Tighten all the fastening devices. Replace the damaged parts in the authorised assistance centre.
	Handle not correctly positioned.	Ensure the handle is fastened in its position.
5. Loss or slowing of thrown snow	Blocked discharge chute.	Clean the discharge chute.
	Auger blocked.	Remove any dirt or foreign bodies from the auger.
6. The snow thrower leaves a light layer of snow on the ground	Auger blade worn	Contact the authorised assistance centre.

If problems persist after having performed the above operations, contact your dealer.