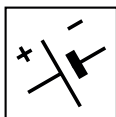


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ST 515 LI

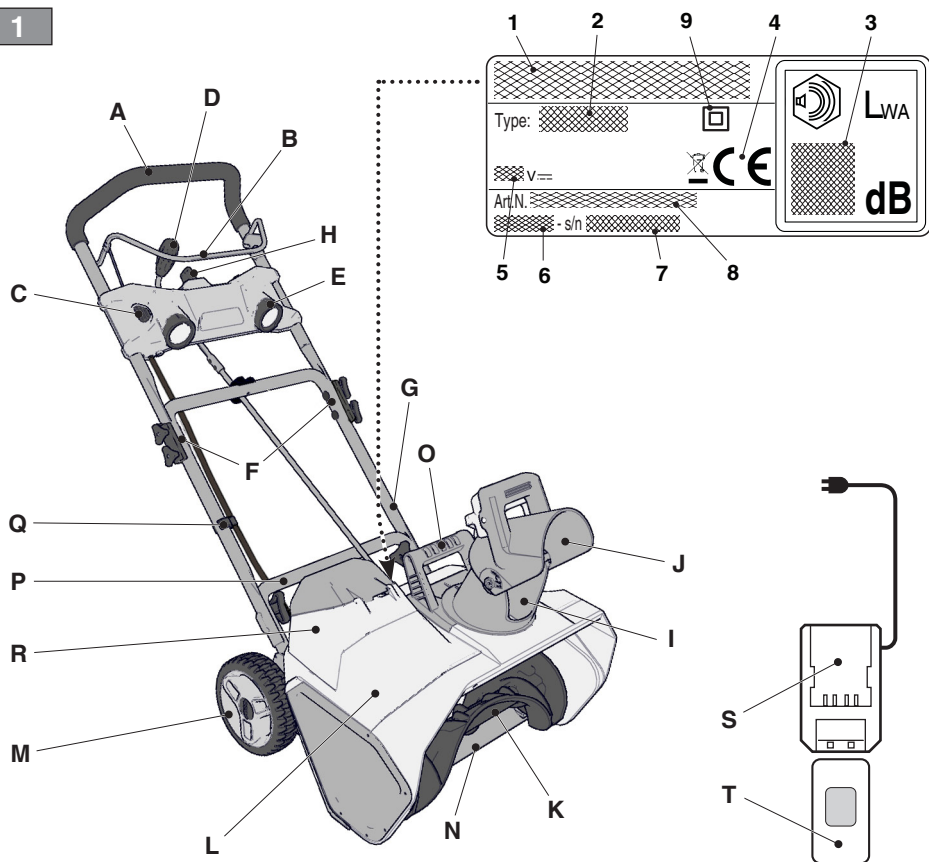
AS 5148 LI



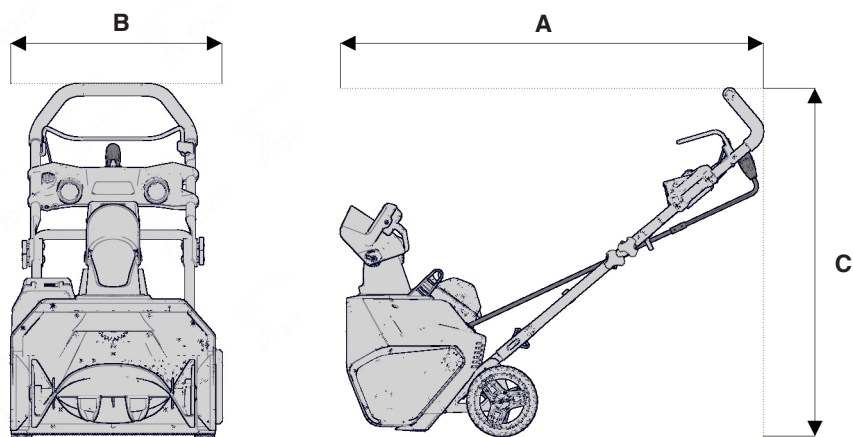
- IT** Spazzaneve condotto a piedi - MANUALE DI ISTRUZIONI
ATTENZIONE: prima di usare la macchina, leggere attentamente il presente libretto.
- BG** Снегорин управляван от право положение - УПЪТВАНЕ ЗА УПОТРЕБА
ВНИМАНИЕ: преди да използвате машината прочетете внимателно настоящата книжка.
- BS** Čistač snijega na guranje - UPUTSTVO ZA UPOTREBU
PAŽNJA: prije nego što koristite ovu mašinu, pažljivo pročitajte priručnik s uputama.
- CS** Ručně vedená sněhová fréza - NÁVOD K POUŽITÍ
UPOZORNĚNÍ: před použitím stroje si pozorně přečtěte tento návod k použití.
- DA** Snesylynge betjent af gående personer - BRUGSANVISNING
ADVARSEL: læs instruktionsbogen omhyggeligt igennem, før du tager denne maskine i brug.
- DE** Handgeführter Schneeräumer - GEBRAUCHSANWEISUNG
ACHTUNG: vor inbetriebnahme des geräts dje gebrauchsanleitung aufmerksam lesen.
- EN** Pedestrian controlled Snow thrower - OPERATOR'S MANUAL
WARNING: read thoroughly the instruction booklet before using the machine.
- ES** Quitanieves conducido de pie - MANUAL DE INSTRUCCIONES
ATENCIÓN: antes de utilizar la máquina, leer atentamente el presente manual.
- ET** Kõndiva juhiga lumepuhur - KASUTUSJUHEND
TÄHELEPANU: enne masina kasutamist lugeda tähelepanelikult antud kasutusjuhendit.
- FI** Kävellen ohjattava lumilinko - KÄYTTÖOHJEET
VAROITUS: lue käyttöopas huolellisesti ennen koneen käyttöä.
- FR** Chasse-neige à conducteur à pied - MANUEL D'UTILISATION
ATTENTION: lire attentivement le manuel avant d'utiliser cette machine.
- HR** Ručno upravljana ralica za snijeg - PRIRUČNIK ZA UPORABU
POZOR: prije uporabe stroja, pažljivo pročitajte ovaj priručnik.
- HU** Gyalogvezetésű hómaró - HASZNÁLATI UTASÍTÁS
FIGYELEM! a gép használatá előtt olvassa el figyelmesen a jelen kézikönyvet.
- LT** Pėsčio operatoriaus valdomas sniego valytuvas
NAUDOJIMO INSTRUKCIJOS
DĖMESIO: prieš naudojant įrenginį, atidžiai perskaityti šį naudotojo vadovą.
- LV** Kājniekvadāms sniega tīrītājs - LIETOŠANAS INSTRUKCIJA -
UZMANĪBU: pirms aparāta lietošanai rūpīgi izlasiet doto instrukciju.
- MK** Расчистувач на снег - УПАТСТВА ЗА УПОТРЕБА
ВНИМАНИЕ: прочитајте го внимателно ова упатство пред да ја користите машината.
- NL** Lopend bediende sneeuwruimer - GEBRUIKERSHANDLEIDING
LET OP: vooraleer de machine te gebruiken, dient men deze handleiding aandachtig te lezen.
- NO** Håndført snøslange - INSTRUKSJONSBOK
ADVARSEL: les denne bruksanvisningen nøye før du bruker maskinen.
- PL** Odśnieżarka prowadzona przez operatora pieszego
INSTRUKCJE OBSŁUGI - OSTRZEŻENIE: przed użyciem maszyny, należy uważnie przeczytać niniejszą instrukcję.
- RO** Plug de západă cu conducător pedestru
MANUAL DE INSTRUȚIUNI - ATENȚIE: înainte de a utiliza mașina, citiți cu atenție manualul de față.
- RU** Снегоочиститель с пешеходным управлением
РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ - ВНИМАНИЕ: прежде чем пользоваться оборудованием, внимательно прочтите это руководство по эксплуатации.
- SK** Ručne vedená snehová fréza - NÁVOD NA POUŽITIE
UPOZORNENIE: pred použitím stroja si pozorne prečítajte tento návod.
- SL** Snežni plug za stoječega delavca - PRIROČNIK ZA UPORABO
POZOR: preden uporabite stroj, pazljivo preberite priročnik z navodili.
- SR** Čistač snega na guranje - PRIRUČNIK SA UPUTSTVIMA
PAŽNJA: pre korišćenja mašine pažljivo pročitati ovaj priručnik.
- SV** Förlädd snöslunga - BRUKSANVISNING
WARNING: läs igenom hela detta häfte innan du använder maskinen.

ITALIANO - Istruzioni Originali	IT
БЪЛГАРСКИ - Инструкция за експлоатация	BG
BOSANSKI - Prijevod originalnih uputa	BS
ČESKY - Překlad původního návodu k používání	CS
DANSK - Oversættelse af den originale brugsanvisning	DA
DEUTSCH - Übersetzung der Originalbetriebsanleitung	DE
ENGLISH - Translation of the original instruction	EN
ESPAÑOL - Traducción del Manual Original	ES
EESTI - Algpärase kasutusjuhendi tõlge	ET
SUOMI - Alkuperäisten ohjeiden käännös	FI
FRANÇAIS - Traduction de la notice originale	FR
HRVATSKI - Prijevod originalnih uputa	HR
MAGYAR - Eredeti használati utasítás fordítása	HU
LIETUVIŠKAI - Originalių instrukcijų vertimas	LT
LATVIEŠU - Instrukciju tulkojums no oriģināl valodas	LV
МАКЕДОНСКИ - Превод на оригиналните упатства	MK
NEDERLANDS - Vertaling van de oorspronkelijke gebruiksaanwijzing	NL
NORSK - Oversettelse av den originale bruksanvisningen	NO
POLSKI - Tłumaczenie instrukcji oryginalnej	PL
ROMÂN - Traducerea manualului fabricantului	RO
РУССКИЙ - Перевод оригинальных инструкций	RU
SLOVENSKY - Preklad pôvodného návodu na použitie	SK
SLOVENŠČINA - Prevod izvirnih navodil	SL
SRPSKI - Prevod originalnih uputstva	SR
SVENSKA - Översättning av bruksanvisning i original	SV

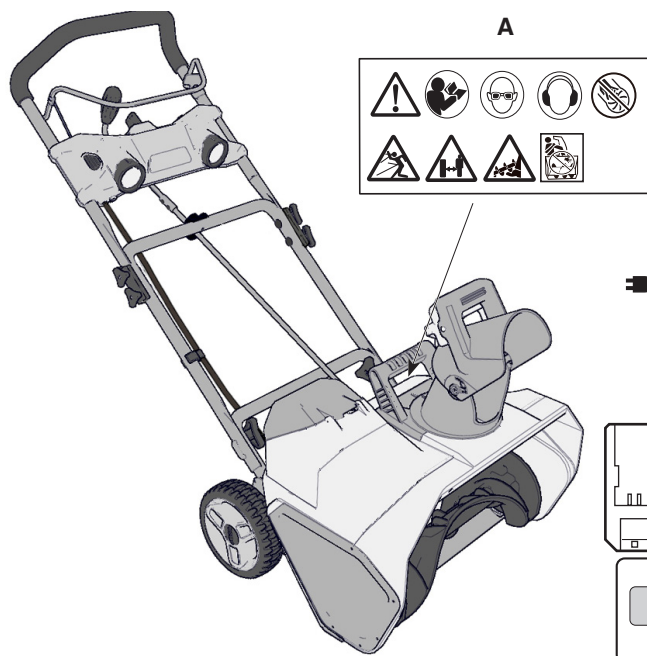
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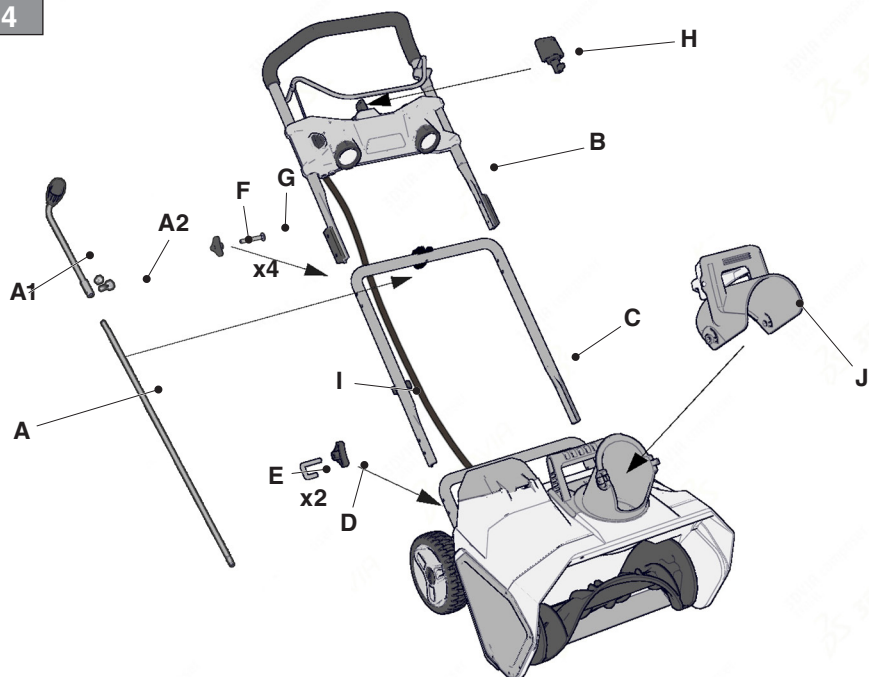
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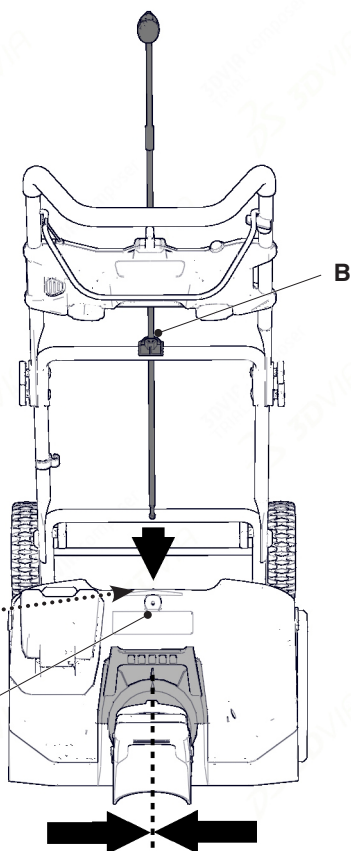
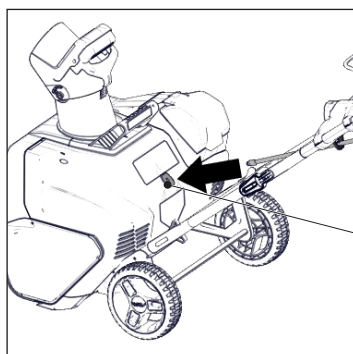
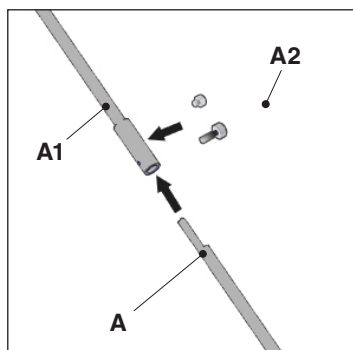
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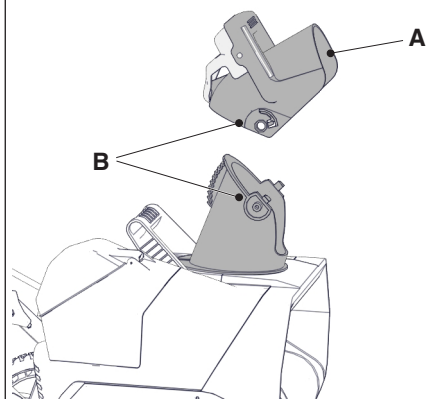
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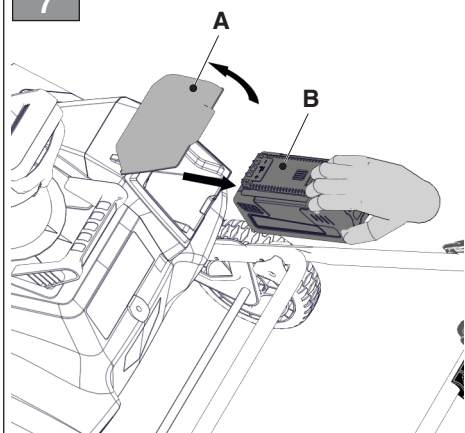
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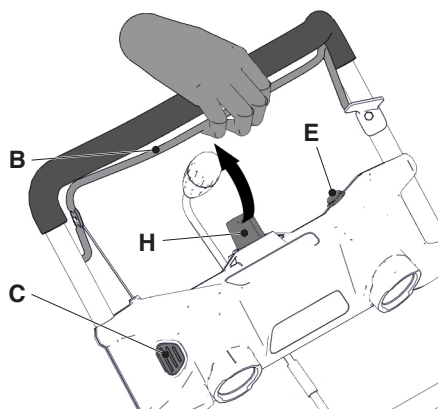
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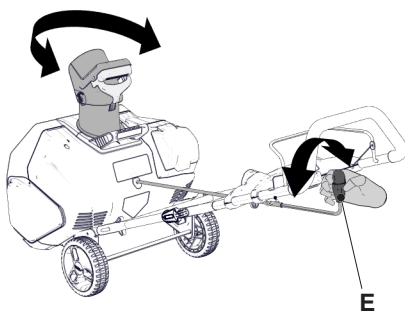
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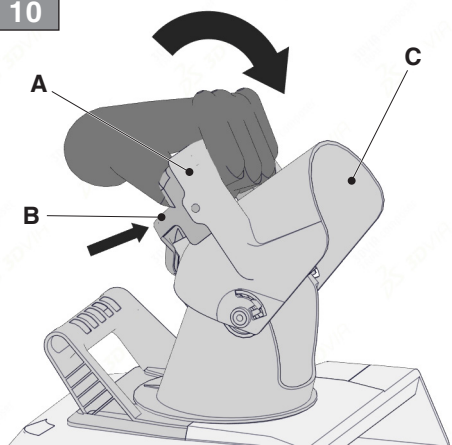
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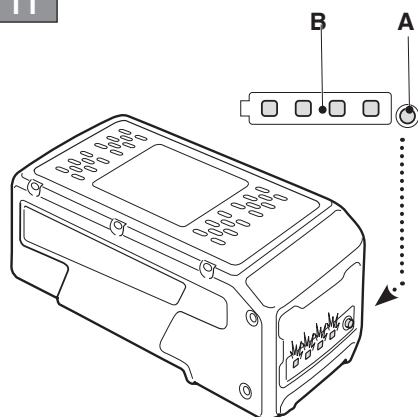
9



10



11



[1]	DATI TECNICI	type	ST 515 Li
		model	AS 5148 Li
[2]	Tensione di alimentazione	V / Hz	48V
[3]	Giri motore	rpm	2000 ± 10%
[4]	Larghezza di lavoro	cm	50,8
[5]	Massa	kg	15,6
[6]	Distanza di lancio massima	m	5,5
[7]	Dimensioni di ingombro	Fig. 2	
[8]	A = Lunghezza	mm	1130
[9]	B = Altezza	mm	950
[10]	C = Larghezza	mm	590
[11]	Livello di potenza sonora misurato	dB(A)	81
[12]	Incertezza	dB(A)	3
[13]	Livello di potenza sonora garantito	dB(A)	84
[14]	Livello di pressione sonora	dB(A)	68
[15]	Incertezza	dB(A)	3
[16]	Valore delle vibrazioni al posto di guida	m/s ²	2,5
[17]	Incertezza	m/s ²	1,5
[18]	Batterie	mod	BT 48 Li 4,0 BT 48 Li 5,0

[1] BG - ТЕХНИЧЕСКИ ДАННИ [2] Напрежение и честота на захранване [3] Обороти на двигателя [4] Работна ширина [5] Маса [6] Максимално разстояние на изхвърляне [7] Максимални размери [8] A = Дължина [9] B = Височина [10] C = Ширина [11] Измерено ниво на звукова мощност [12] Несигурност [13] Гарантирано ниво на звукова мощност [14] Ниво на звуково налягане [15] Несигурност [16] Стойност на вибрации в мястото за управление [17] Несигурност [18] Аккумулятори	[1] BS - TEHNIČKI PODACI [2] Napon i frekvencija napajanja [3] Okretaji motora [4] Radna širina [5] Masa [6] Maksimalna udaljenost bacanja [7] Dimenzije [8] A = Dužina [9] B = Visina [10] C = Širina [11] Izmjerena razina zvučne snage [12] Nesigurnost [13] Garantirana razina zvučne snage [14] Razina zvučnog pritiska [15] Nesigurnost [16] Razina vibracija na mjestu vozača [17] Nesigurnost [18] Baterije	[1] CS - TECHNICKÉ PARAMETRY [2] Napájecí napětí a frekvence [3] Otáčky motoru [4] Pracovní záběr [5] Hmotnost [6] Maximální vzdálenost vyhozování [7] Vnější rozměry [8] A = Délka [9] B = Výška [10] C = Šířka [11] Naměřená úroveň akustického výkonu [12] Nepřesnost měření [13] Zaručená úroveň akustického výkonu [14] Úroveň akustického tlaku [15] Nepřesnost měření [16] Hodnota vibrací na místě řidiče [17] Nepřesnost měření [18] Akumulátor
[1] DA - TEKNISKE DATA [2] Forsyningsspænding og frekvens [3] Motoromdrejninger [4] Arbejdsbredde [5] Vægt [6] Maks. slyngningsafstand [7] Maskinmål [8] A = Længde [9] B = Højde [10] C = Bredde [11] Målt lydeffektniveau [12] Usikkerhed [13] Garanteret lydeffektniveau [14] Lydtryksniveau [15] Usikkerhed [16] Vibrationsniveau på førersædet [17] Usikkerhed [18] Batterier	[1] DE - TECHNISCHE DATEN [2] Versorgungsspannung und -frequenz [3] Motordrehzahl [4] Arbeitsbreite [5] Gewicht [6] Maximaler Wurfabstand [7] Abmessungen des Platzbedarfs [8] A = Länge [9] B = Höhe [10] C = Breite [11] Gemessener Schalleistungspegel [12] Messungengenauigkeit [13] Garantierter Schalleistungspegel [14] Schalldruckpegel [15] Messungengenauigkeit [16] Vibrationswert am Fahrerplatz [17] Messungengenauigkeit [18] Akkus	[1] ES - DATOS TÉCNICOS [2] Tensión y frecuencia de alimentación [3] Revoluciones motor [4] Ancho de trabajo [5] Masa [6] Distancia de lanzamiento máxima [7] Dimensiones totales [8] A = Longitud [9] B = Altura [10] C = Anchura [11] Nivel de potencia sonora medido [12] Incertidumbre [13] Nivel de potencia sonora garantizado [14] Nivel de presión sonora [15] Incertidumbre [16] Valor de las vibraciones en el puesto de conducción [17] Incertidumbre [18] Baterías
[1] ET - TEHNILISED ANDMED [2] Toitepinge ja -sagedus [3] Mootoripöörded [4] Töölaius [5] Mass [6] Maksimaalne heitekaugus [7] Mootmed [8] A = Pikkus [9] B = Kõrgus [10] C = Laius [11] Mõõdetud müra võimsuse tase [12] Ebakindlus [13] Garanteeritud müra võimsuse tase [14] Helirõhu tase [15] Ebakindlus [16] Vibratsiooni suurus juhikohal [17] Ebakindlus [18] Aku	[1] FI - TEHNISET TIEDOT [2] Syöttöjännite ja -taajuus [3] Moottorin kierrosluku [4] Työstöleveys [5] Massa [6] Maksimi linnoamisetaisyys [7] Mitat [8] A = Pituus [9] B = Korkeus [10] C = Leveys [11] Mitattu äänitehotaso [12] Epätarkkuus [13] Taattu äänitehotaso [14] Äänenpaineen taso [15] Epätarkkuus [16] Tärinänarvo kuljettajan paikalla [17] Epätarkkuus [18] Akut	[1] FR - CARACTÉRISTIQUES TECHNIQUES [2] Tension et fréquence d'alimentation [3] Tours du moteur [4] Largeur de travail [5] Masse [6] Distance de projection maximale [7] Dimensions d'encombrement [8] A = Longueur [9] B = Hauteur [10] C = Largeur [11] Niveau de puissance sonore mesuré [12] Incertitude [13] Niveau de puissance sonore garanti [14] Niveau de pression sonore [15] Incertitude [16] Valeur des vibrations au poste de conduite [17] Incertitude [18] Batteries

[1] HR - TEHNIČKI PODACI [2] Napon i frekvencija napajanja [3] Broj okretaja motora [4] Radna širina [5] Masa [6] Maksimalna udaljenost izbacivanja [7] Gabaritne dimenzije [8] A = Dužina [9] B = Visina [10] C = Širina [11] Izmjerena razina zvučne snage [12] Mjerna nesigurnost [13] Zajamčena razina zvučne snage [14] Razina zvučnog tlaka [15] Mjerna nesigurnost [16] Vrijednost vibracija na vozačkom mjestu [17] Mjerna nesigurnost [18] Akumulatori	[1] HU - MŰSZAKI ADATOK [2] Tápfeszültség és -frekvencia [3] Motor fordulatszáma [4] Munkavégzési szélesség [5] Tömeg [6] Max. kidobási távolság [7] Befoglaló méretek [8] A = Hosszúság [9] B = Magasság [10] C = Szélesség [11] Mért zajteljesítmény szint [12] Mérési bizonytalanság [13] Garantált zajteljesítmény szint [14] Hangnyomásszint [15] Mérési bizonytalanság [16] A vezetőállásnál mért vibrációsérték [17] Mérési bizonytalanság [18] Akkumulátorok	[1] EN - TECHNICAL DATA [2] Power voltage and frequency [3] Motor rotations [4] Working width [5] Weight [6] Maximum launch distance [7] Dimensions [8] A = Length [9] B = Height [10] C = Width [11] Measured acoustic power level [12] Uncertainty [13] Guaranteed acoustic power level [14] Sound pressure level [15] Uncertainty [16] Operator position vibration value [17] Uncertainty [18] Batteries
[1] LT - TECHINIAI DUOMENYS [2] Maitinimo įtampa ir dažnis [3] Variklio apskukos [4] Darbo plotis [5] Svoris [6] Maksimalus metimo tolis [7] Matmenys [8] A = Ilgis [9] B = Aukštis [10] C = Plotis [11] Išmatuotas garso galios lygis [12] Paklaida [13] Garantuotas garso galios lygis [14] Garso slėgio lygis [15] Paklaida [16] Vibracijų lygis, sėdynė [17] Paklaida [18] Akumulatoriai	[1] LV - TEHNISKE DATI [2] Barošanas spriegums un frekvence [3] Dzinēja apgriezieni [4] Darba platums [5] Masa [6] Maksimālais izmešanas attālums [7] Gabariti [8] A = Garums [9] B = Augstums [10] C = Platums [11] Izmērtais skaņas intensitātes līmenis [12] Kļūda [13] Garantētais skaņas intensitātes līmenis [14] Skaņas spiediena līmenis [15] Kļūda [16] Vibrāciju līmenis vadītāja vietā [17] Kļūda [18] Akumulatori	[1] МК - ТЕХНИЧНИ ПОДАТОЦИ [2] Волтажа и вид на напојување [3] Вртежи на моторот [4] Ширина на работа [5] Тежина [6] Далечина за максимално отфрлање [7] Димензии на пречка [8] A = Должина [9] B = Висина [10] B = Ширина [11] Измерено ниво на бучава [12] Отстапување [13] Гарантирано ниво на бучава [14] Ниво на звучен притисок [15] Отстапување [16] Вредност на вибрации на местото на управување [17] Отстапување [18] Батерии
[1] NL - TECHNISCHE GEGEVENS [2] Spanning en frequentie voeding [3] Toeren motor [4] Werkbreedte [5] Massa [6] Maximale schietafstand [7] Afmetingen [8] A = Lengte [9] B = Hoogte [10] C = Breedte [11] Gemeten akoestisch vermogen [12] Onzekerheid [13] Gewaarborgd akoestisch vermogen [14] Niveau geluidsdruk [15] Onzekerheid [16] Niveau trillingen op de bestuursplaats [17] Onzekerheid [18] Batterijen	[1] NO - TEKNISKE DATA [2] Matespennning og -frekvens [3] Motoromdreiningar [4] Arbeidsbredde [5] Vekt [6] Maks. rekkevidde for utkast [7] Totale mål [8] A = Lengde [9] B = Høyde [10] C = Bredd [11] Målt lydeffektivnivå [12] Usikkerhet [13] Garantert lydeffektivnivå [14] Lydtrykknivå [15] Usikkerhet [16] Vibrasjonsnivå ved førerplassen [17] Usikkerhet [18] Batterier	[1] PL - DANE TECHNICZNE [2] Napięcie i częstotliwość zasilania [3] Obroty silnika [4] Zasięg prac [5] Masa [6] Odległość maksymalna odrzutu [7] Wymiary ogólne [8] A = Długość [9] B = Wysokość [10] C = Szerokość [11] Pomiar poziomu mocy akustycznej [12] Niepewność pomiaru [13] Gwarantowany poziom mocy akustycznej [14] Poziom ciśnienia akustycznego [15] Niepewność pomiaru [16] Poziom drgań na stanowisku kierowcy [17] Niepewność pomiaru [18] Akumulatory

[1] RO - DATE TEHNICE [2] Tensiunea și frecvența de alimentare [3] Turații motor [4] Lățime de lucru [5] Masă [6] Distanță maximă de lansare [7] Dimensiuni de gabarit [8] A = Lungime [9] B = Înălțime [10] C = Lățime [11] Nivel de putere sonoră măsurat [12] Nesiguranță [13] Nivel de putere sonoră garantat [14] Nivel de presiune sonoră [15] Nesiguranță [16] Valoarea vibrațiilor la locul conducătorului [17] Nesiguranță [18] Baterii	[1] RU - ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ [2] Напряжение и частота питания [3] Число оборотов двигателя [4] Ширина рабочей зоны [5] Масса [6] Дальность отброса снега [7] Габаритные размеры [8] A = Длина [9] B = Высота [10] C = Ширина [11] Измеренный уровень звуковой мощности [12] Погрешность [13] Гарантируемый уровень звуковой мощности [14] Уровень звукового давления [15] Погрешность [16] Уровень вибрации на месте водителя [17] Погрешность [18] Батареи	[1] SK - TECHNICKÉ PARAMETRE [2] Napájecí napětí a frekvence [3] Otáčky motoru [4] Pracovní záběr [5] Hmotnost [6] Maximální vzdálenost vyhazování [7] Vnější rozměry [8] A = Délka [9] B = Výška [10] C = Šířka [11] Naměřená úroveň akustického výkonu [12] Nepřesnost měření [13] Zaručená úroveň akustického výkonu [14] Úroveň akustického tlaku [15] Nepřesnost měření [16] Hodnota vibrací na místě řidiče [17] Nepřesnost měření [18] Akumulátory
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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 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" or "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.

Battery power supply

- Read the safety precautions contained in the battery manual.
- 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.*

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. Keep clear the discharge opening at all times.
- 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, remove the battery 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 remove the battery.
- Before cleaning, repairs or inspections, always check the rotating units have stopped, controls are disengaged and the battery is removed.
- 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!

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 place hands inside the chute or the auger without firstly removing the battery.

2.4 MAINTENANCE, STORAGE AND TRANSPORT

Ensure regular maintenance and correct storage to maintain machine safety.

⚠ Before cleaning or doing maintenance work, remove the battery 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 of 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

- The battery, if damaged, must be replaced with a genuine part only, by your dealer or an authorised assistance centre.

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.

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.



At the end of their working life, dispose of batteries paying due attention to the environment. Batteries contain material classified as hazardous for you and the environment. They must be removed and disposed of separately at a facility that accepts lithium-ion batteries.



Separate waste collection of the products and packaging used allows the materials to be recycled and reused. Reuse of recycled materials help to prevent environmental pollution and reduces the demand for raw materials.

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 dealer.

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 48V rechargeable battery pack. It should be recharged with a 230 V c.a. current socket using a specific battery charger (see the specific manual).

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 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.



WARNING! 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, remove the battery pack from the machine..



WARNING! Battery charger is equipped with a safety transformer.



DANGER! Use only in dry surroundings.



WARNING! Read the instruction manual before using.



WARNING! Do not expose the accumulator when the temperature is higher than 45°C.



DANGER! Do not immerse the accumulator in water and do not expose it to humidity.



DANGER! Do not throw batteries into a fire. EXPLOSION RISK!

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. Power voltage
6. Month /Year of manufacture
7. Serial number
8. Article code
9. 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 is provided 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. Led lights
- F. Handle pivot closure
- G. Central handle
- H. Ignition key
- 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
- R. Battery compartment
- S. Battery charger (supplied separately)
- T. Battery (supplied separately)

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, 4.A1, 4.A2	1
Handle	4.B	1
Handle fitting	4.C	1

Component	Fig.	N.
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
Ignition key	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 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. 9).

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 IGNITION KEY

Used to start and stop the motor. The ignition key has two positions (fig. 8.H):

1. Key removed - OFF - the motor stops and cannot be restarted.
2. Key inserted - ON - the motor can start and run.

5.2 STARTER LEVER

Used to start and stop the motor.

- Start: Press the lock button (fig. 8.C) and pull the starter lever (fig. 8.B).
- Stop: release the starter lever (fig. 8.B).

5.3 STARTER LEVER LOCK

It prevents accidental activation of the starter lever. Press the button (fig. 8.C) to release the starter lever.

5.4 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. 9.E) clockwise/anti-clockwise to adjust the chute.

5.5 DEFLECTOR ADJUSTMENT

Hold the handle (fig. 10.A) and press it to release the deflector lock (fig. 10.B) to enable deflector regulation (fig. 10.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).

5.6 LED LIGHTS SWITCH

To turn the headlamps on, push the switch (fig. 8.E) forward.

I = ON: lights on
O = OFF: lights off

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.*

The machine is supplied without the battery. Purchase the battery with the capacity that most suits your operational requirements and fully charge it according to the instructions in the battery booklet. The list of approved batteries for this machine is found in the "Technical Data" table.

6.1 PREPARATION

- Check the auger has not already taken in snow in the start position.
- Insert the battery in the specific compartment (fig. 7)

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
Press the release button (fig. 8.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. 8.C).
3. To start, pull the starter lever (fig. 8.B).
4. Release the starter lever.

 **If the auger is blocked, do not attempt to operate the motor. The machine is equipped with an automatic "Motor save" protection when inserted, wait a few minutes before re-starting the machine.**

6.3.2 Operation

Lower the auger towards the ground and start to remove snow.

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

6.4 STOP

To stop the machine, release the starter lever (fig. 8.B).

IMPORTANT *If you have to leave the machine, remove the battery.*

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

- Open the battery housing hatch (fig. 7).
- Press the retainer tab in the battery and remove it from the compartment (Fig. 7).
- Clean the remaining snow on the machine with a brush (par. 8.2).
- 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. BATTERY RECHARGING AND MANAGEMENT

- The battery must be stored in places with temperatures between 7°C and 40°C. If the machine is stored in places that could exceed these threshold, it is recommended to remove the battery and store it in a more suitable location.
- During use, the battery is protected against total drainage with a protective device that switches off the machine and stops it from working.
- The battery is equipped with a guard that inhibits recharging if the environmental temperature is not between 0 and +45 °C.
- The battery can be recharged at any time, even partially, with no risk of damaging it.

Check the battery charge status

To check the condition of the battery charge status, press the small button (fig. 11.A) which activates 3 or 4 LED lights (fig.11.B) which indicate the following:

LED	Battery power reserve
4 GREEN	100%
3 GREEN	70%
2 GREEN	45%
1 GREEN	10% - Recharge needed
None	The battery has less than 10% power reserve and needs recharging immediately. If at least one LED does not come on after 30 minutes charging, the battery is faulty and needs replacing.

Battery charging lasts from 1.5 - 3.5 hours, depending on the battery capacity and its residual charge.

The battery charger (5) is the diagnostic type fitted with a LED that provides information on the battery and charge status, based on the following chart:

LED (5a)	Meaning
GREEN (Flashing)	Battery charging
GREEN	Fully charged battery
RED	Battery overheated: remove the battery and leave it to cool for at least 30 minutes
Off	No battery or battery inserted incorrectly
RED (Flashing)	Charge anomaly and possible faulty battery; in this case remove the battery and replace it within 2 hours: if the LED indicates charging status, this means that the battery is in good condition and the charging can proceed as normal. Otherwise: - disconnect the battery charger, wait a few minutes, and reconnect it to the mains again; - remove the battery from the charger, wait a few minutes, and replace it again. If, after all these attempts, the LED (5b) does not indicate the charge status and continues to flash, this means that the battery is faulty and needs replacing.

8. MAINTENANCE

8.1 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.*

8.2 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.**
- **Removing the ignition key**
- **Removing the battery**

Always clean the machine after use.

To clean the machine adhere to the instructions provided below:

- Stop the motor
- Remove the battery from its compartment.
- 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.**

9. STORAGE

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

5. Clean the snow thrower thoroughly.
6. Check for any damage. If necessary, see to the necessary repairs.
7. If the paintwork is damaged, touch it up to prevent rust.
8. Protect any exposed metal surfaces from rust.

10. 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. Any operations performed in unauthorized centres or by unqualified persons will totally invalidate the Warranty and all obligations and responsibilities of the Manufacturer.

- Only authorized service workshops can 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.

11. 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.

12. 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	5.3
General cleaning and inspection	At the end of each operation	8.2

13. PROBLEM IDENTIFICATION

PROBLEM	PROBABLE CAUSE	REMEDY
1. No start	Battery is not inserted or is inserted incorrectly	Check that the battery is correctly inserted
	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	Electric part malfunction	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.
7. Battery power reserve is low	Severe working conditions requiring greater current absorption	Optimise operations (chap. 7)
	Battery is insufficient for operating requirements	Use a second battery or an extended battery
8. The battery charger is not recharging the battery (red led on or flashing)	Battery is not correctly inserted in the battery charger	Check it is correctly inserted
	Unsuitable environmental conditions	Recharge the battery in places with suitable temperatures (chap. 7)
	Dirty contacts	Clean the contacts
9. The battery charger is not recharging the battery (no led on)	The battery charger is not energised	Check it is plugged in and the power socket is energised
	Faulty battery charger	Replace with an original spare part

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

DICHIARAZIONE CE DI CONFORMITÀ (Istruzioni Originali)

(Direttiva Macchine 2006/42/CE, Allegato II, parte A)

1. **La Società:** ST. SpA – Via del Lavoro, 6 – 31033 Castelfranco Veneto (TV) – Italy
2. Dichiaro sotto la propria responsabilità, che la macchina: Spazzaneve condotto a piedi, spalatura/sgombero neve

a) Tipo / Modello Base

ST 515 Li

b) Mese/ Anno di costruzione

c) Matricola

d) Motore

a batteria

3. È conforme alle specifiche delle direttive:

- MD: 2006/42/EC
- OND: 2000/14/EC, ANNEX V
D. Lgs. 262/2002, ANNEX V (Italy)
- EMCD: 2014/30/EU
- RoHS II: 2011/65/EU

4. Riferimento alle Norme armonizzate:

ISO/DIS 8437:2008

EN 60335-1:2012/A11:2014

EN 50581:2012

EN 55014-1:2006/A1:2009/A2:2011

EN 55014-2:1997/A1:2001/A2:2008

- g) Livello di potenza sonora misurato
- h) Livello di potenza sonora garantito
- k) Potenza installata

81 dB(A)

84 dB(A)

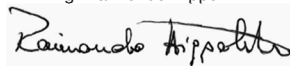
/ kW

- m) Persona autorizzata a costituire il Fascicolo Tecnico:

ST. SpA
Via del Lavoro, 6
31033 Castelfranco Veneto (TV)- Italia

- n) CastelfrancoV.to, 19.06.2017

Vice Presidente Quality & Customer Service
Ing. Raimondo Hippoliti



• Soggetto a modifiche senza preavviso • Подлежи на промени без предупреждение • Moguće su promjene bez najave • Možnost změn bez předehlého upozornění • Ret til ændringer forbeholdes • Kann ohne Vorankündigung geändert werden • Υπόκειται σε αλλαγές χωρίς προειδοποίηση • Subject to modifications without notice • Sujeto a modificaciones sin previo aviso • Võimalikud muudatused ilma ette teatamata • Voidaan tehdä muutoksia ilman ennakkoilmoitusta • Sujet à des modifications sans aucun préavis • Podložno promjenama bez prethodne obavijesti • Előzetes értesítés nélkül módosítható • Objekto pakeitimai be perspėjimo • Var tikt mainīts bez iepriekšēja brīdinājuma • Подлежи на промени без претходно известување • Kan zonder kennisgeving wijzigingen ondergaan • Kan endres uten forvarsel • Poddawany modyfikacjom bez awizowania • Sujeito a alterações sem aviso prévio • Poate fi modificat, fără preaviz • Может быть изменено без преомления • Možnosť zmien bez predošlého upozornenia • Lahko pride do sprememb brez predhodnega obvestila • Podložno izmenama bez upozorenja • Kan utsättas för modifieringar utan att detta meddelas • Önceden haber verilmeksizin değiştirilebilir



.....	
Type:	L_{WA} dB
..... -s/n -Art.N	
CE	