171506148/0 05/2017

SPR 276
SPR 276 C

IT **Motosega a catena per potatura** - MANUALE DI ISTRUZIONI
ATTENZIONE: prima di usare la macchina, leggere attentamente il presente libretto.

BG **Моторен верижен трион за подрязване** - УПЪТВАНЕ ЗА УПОТРЕБА
ВНИМАНИЕ: преди да използвате машината прочетете внимателно настоящата книжка.

BS **Lančana motorna pila za potkresivanje** - UPUTSTVO ZA UPOTREBU
PAŽNJA: prije nego što koristite ovu mašinu, pažljivo pročitajte priručnik s uputama.

CS **Řetězová motorová pila pro prořezávání** - NÁVOD K POUŽITÍ
UPOZORNĚNÍ: před použitím stroje si pozorně přečtěte tento návod k použití.

DA **Kædesav til træbeskæring** - BRUGSANVISNING
ADVARSEL: læs instruktionsbogen omhyggeligt igennem, før du tager denne maskine i brug.

DE **Kettensäge für die Baumpflege** - GEBRAUCHSANWEISUNG
ACHTUNG: vor inbetriebnahme des geräts die gebrauchsanleitung aufmerksam lesen.

EL **Αλυσοπρίονο για κλάδεμα** - ΟΔΗΓΙΕΣ ΧΡΗΣΠΣ
ΠΡΟΣΟΧΗ: πριν χρησιμοποιησετε το μηχανημα, διαβαστε προσεκτικα το παρον εγχειριδιο.

EN **Chain-saw for tree service** - OPERATOR'S MANUAL
WARNING: read thoroughly the instruction booklet before using the machine.

ES **Motosierra de cadena para trabajos de poda** MANUAL DE INSTRUCCIONES - **ATENCIÓN: antes de utilizar la máquina, leer atentamente el presente manual.**

ET **Kettsaag pügamiseks** - KASUTUSJUHEND
TÄHELEPANU: enne masina kasutamist lugeda tähelepanelikult antud kasutusjuhendit.

FI **Moottorisaha puiden karsintaan** - KÄYTTÖOHJEET
VAROITUS: lue käyttöopas huolellisesti ennen koneen käyttöä.

FR **Scie à chaîne pour l'élagage des arbres** - MANUEL D'UTILISATION
ATTENTION: lire attentivement le manuel avant d'utiliser cette machine.

HR **Motorna lančana pila za obrezivanje** - PRIRUČNIK ZA UPORABU
POZOR: prije uporabe stroja, pažljivo pročitajte ovaj priručnik.

HU **Gallyazó motoros láncfűrész** - HASZNÁLATI UTASÍTÁS
FIGYELEM! a gép használata előtt olvassa el figyelmesen a jelen kézikönyvet.

LT **Grandininis pjūklas medžių genėjimui** - NAUDOJIMO INSTRUKCIJOS
DĖMESIO: prieš naudojant įrenginį, atidžiai perskaityti šį naudotojo vadovą.

LV **Ķēdes zāģis koku apkopšanas darbiem**- LIETOŠANAS INSTRUKCIJA
UZMANĪBU: pirms aparāta lietošanai rūpīgi izlasiet doto instrukciju.

MK **Моторна пила со синџир за поткастрување** УПАТСТВА ЗА УПОТРЕБА - **ВНИМАНИЕ: прочитајте го внимателно ова упатство пред да ја користите машината.**

NL **Kettingzaag voor snoeiwerken** - GEBRUIKERSHANDLEIDING
LET OP: vooraleer de machine te gebruiken, dient men deze handleiding aandachtig te lezen.

NO **Kjedesag for trær** - INSTRUKSJONSBOK
ADVARSEL: les denne bruksanvisningen nøye før du bruker maskinen.

PL **Pilarka łańcuchowa do cięcia drzew i krzewów** - INSTRUKCJE OBSŁUGI
OSTRZEŻENIE: przed użyciem maszyny, należy uważnie przeczytać niniejszą instrukcję.

PT **Motosserra para poda** - MANUAL DE INSTRUÇÕES
ATENÇÃO: antes de usar a máquina, leia atentamente o presente manual.

RO **Ferăstrău cu lanț pentru elagaj** - MANUAL DE INSTRUCȚIUNI
ATENȚIE: înainte de a utiliza mașina, citiți cu atenție manualul de față.

RU **Цепная пила для обрезки деревьев** РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ - **ВНИМАНИЕ: прежде чем пользоваться оборудованием, внимательно прочтите это руководство по эксплуатации.**

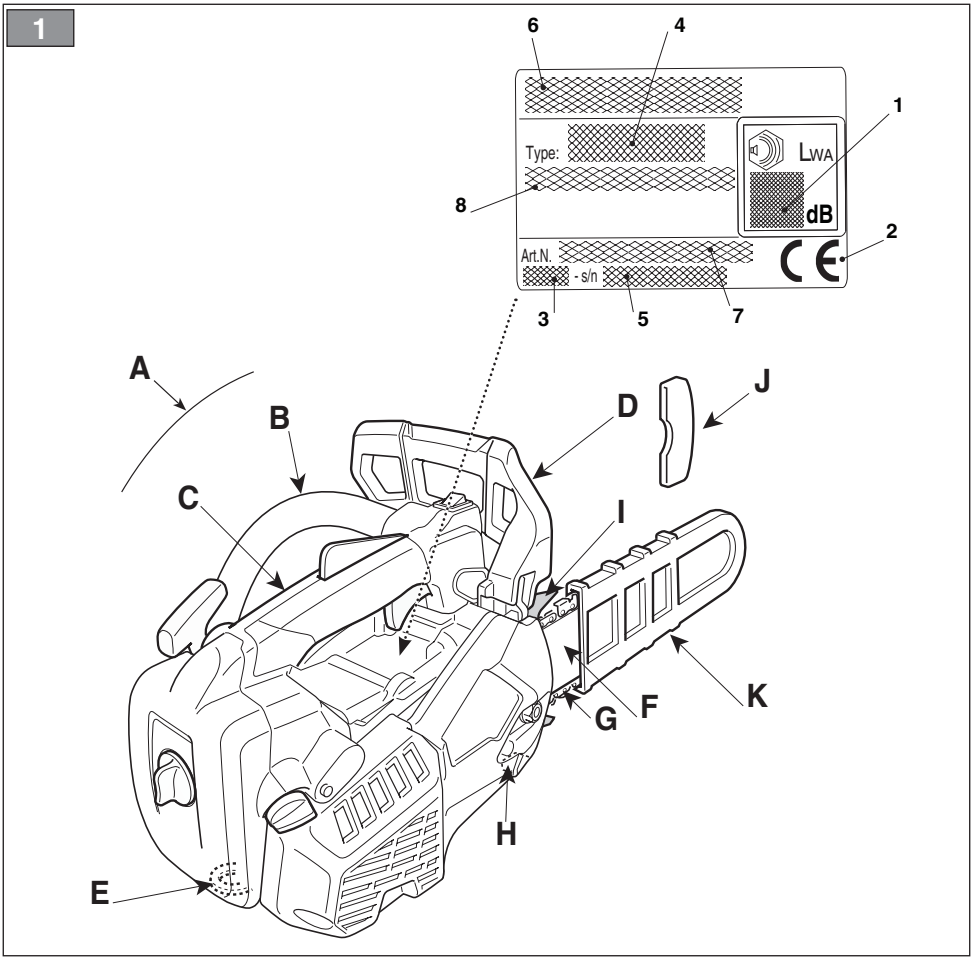
SK **Reťazová motorová píla pre prerezávanie** - NÁVOD NA POUŽITIE
UPOZORNENIE: pred použitím stroja si pozorne prečítajte tento návod.

SL **Verižna žaga za rezanje vej** - PRIROČNIK ZA UPORABO
POZOR: preden uporabite stroj, pazljivo preberite priročnik z navodili.

SR **Lančana motorna testera za kresanje grana** PRIRUČNIK SA UPUTSTVIMA - **PAŽNJA: pre korišćenja mašine pažljivo pročitati ovaj priručnik.**

SV **Kedjesåg för beskärning** - BRUKSANVISNING
VARNING: läs igenom hela detta häfte innan du använder maskinen.

TR **Budama için zincirli testere** - KULLANIM KILAVUZU
DİKKAT: makıneyı kullanmadan önce talımatlar içeren kilavuzu dıkkatle okuyun.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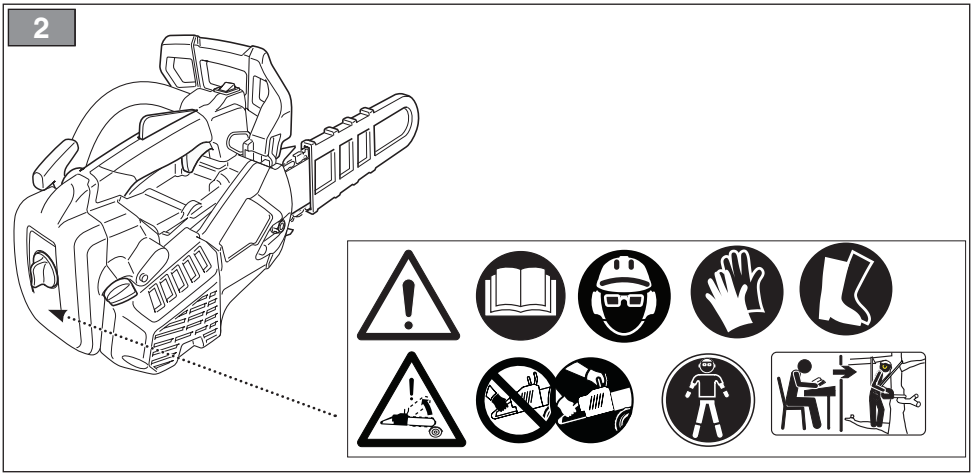
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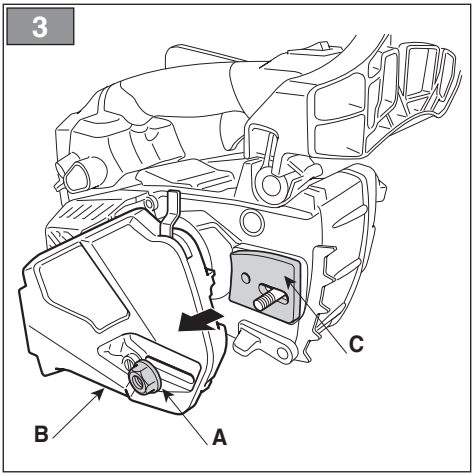
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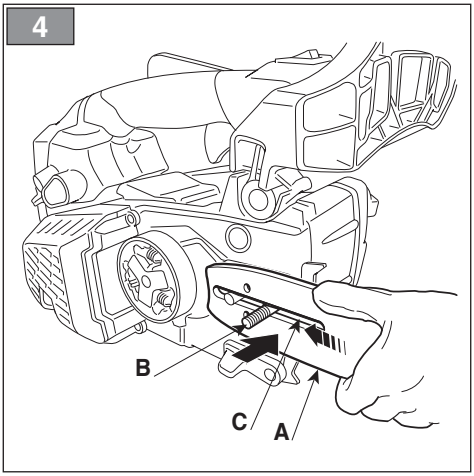
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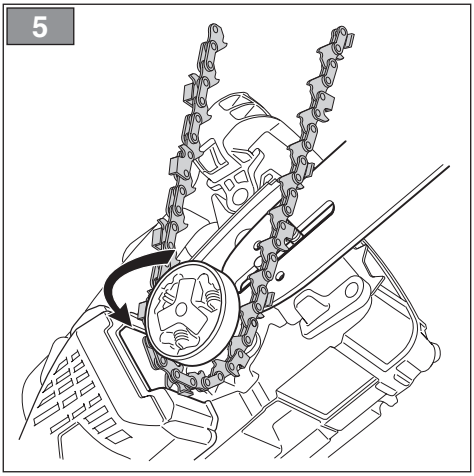
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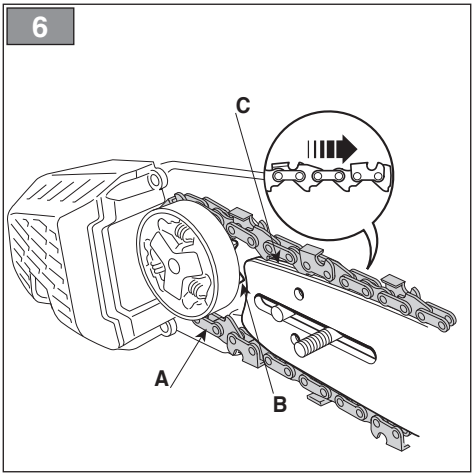
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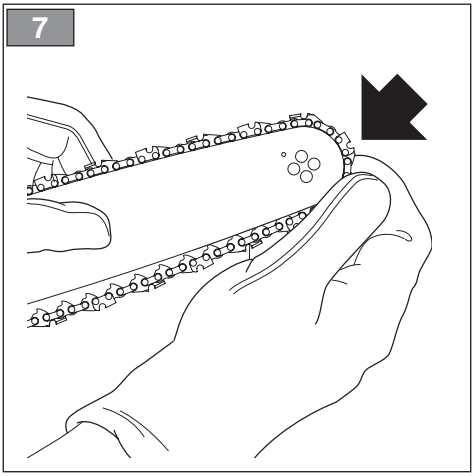
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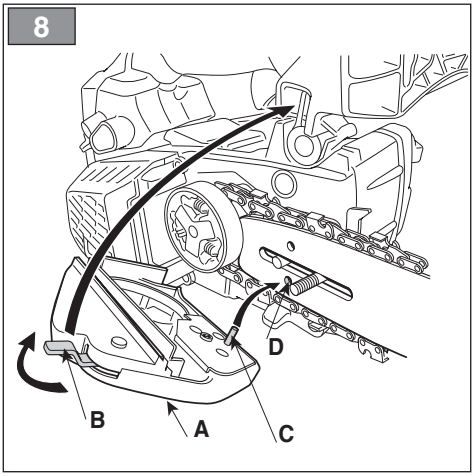
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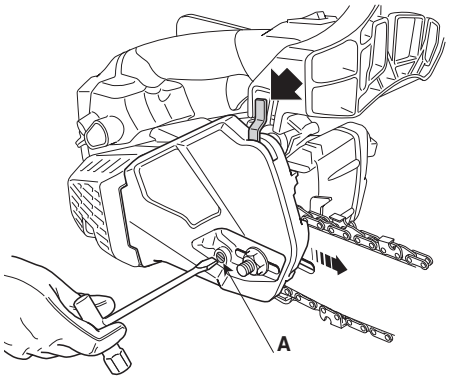

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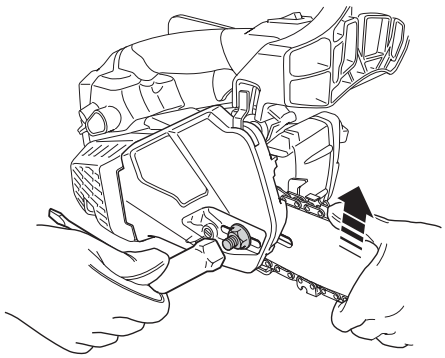

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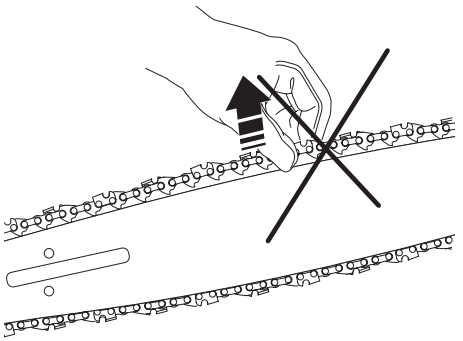

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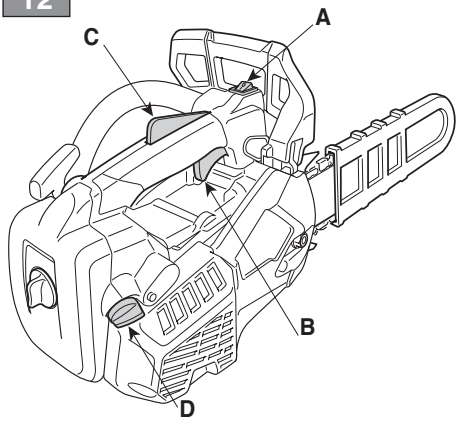

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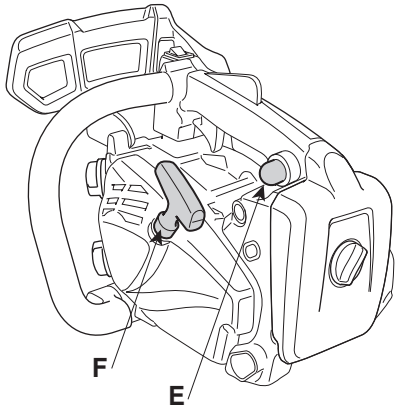

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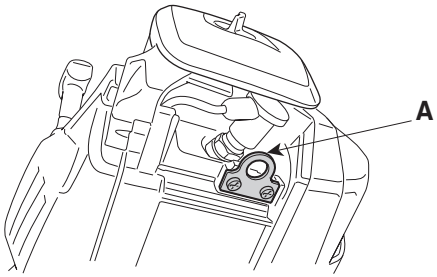

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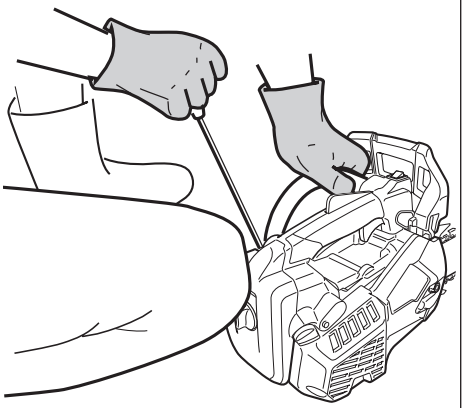

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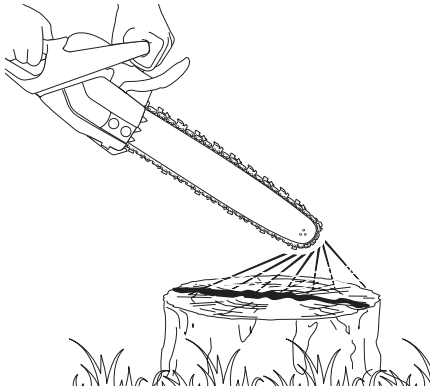

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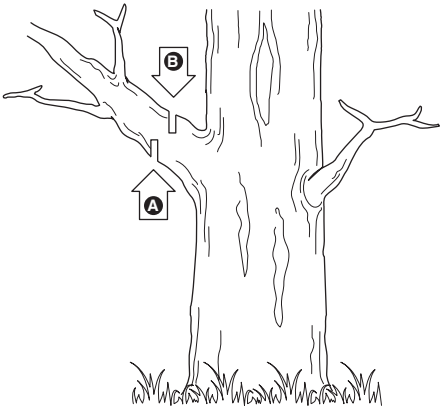

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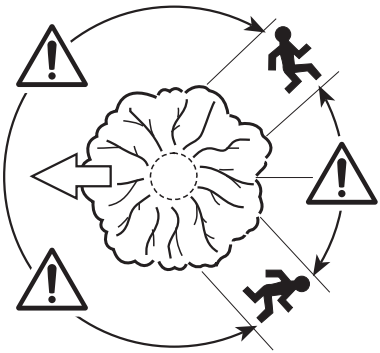

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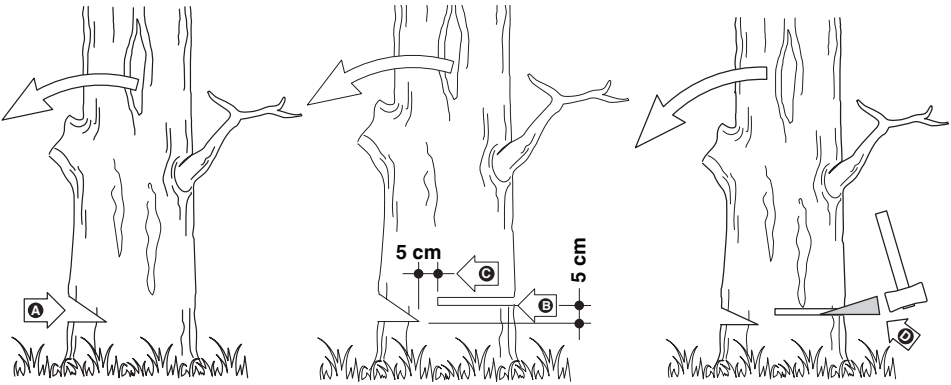

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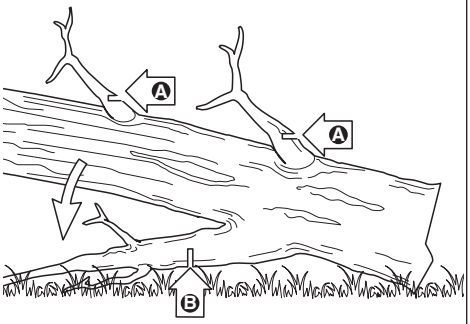

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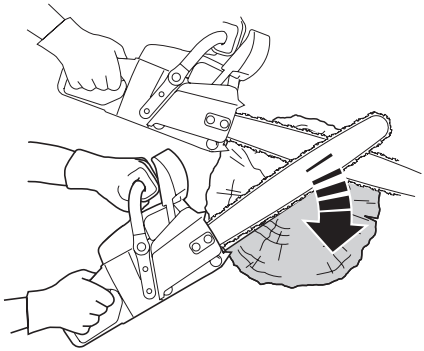

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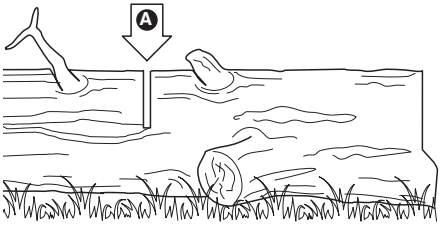

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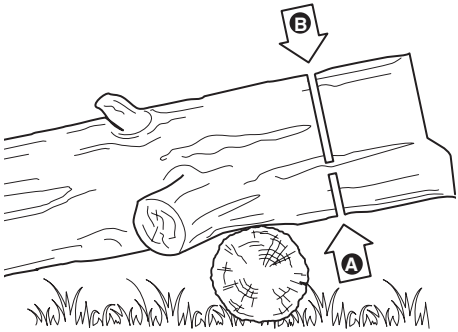

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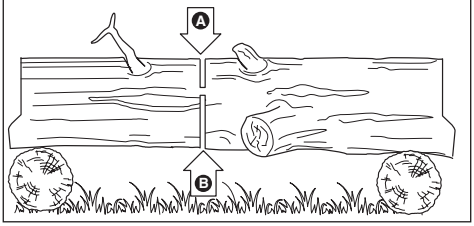

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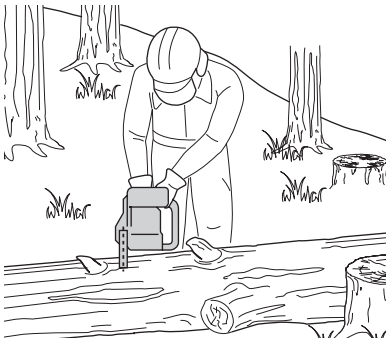

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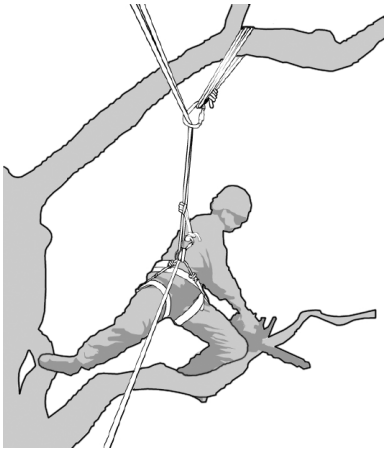

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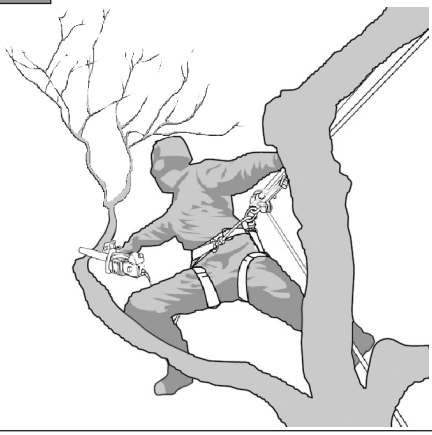

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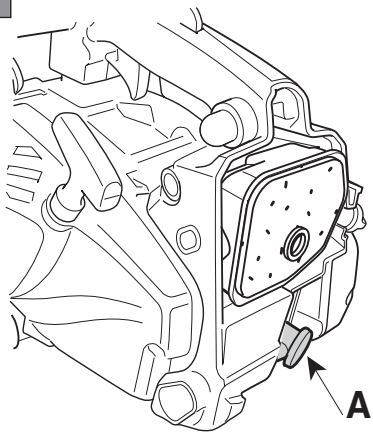

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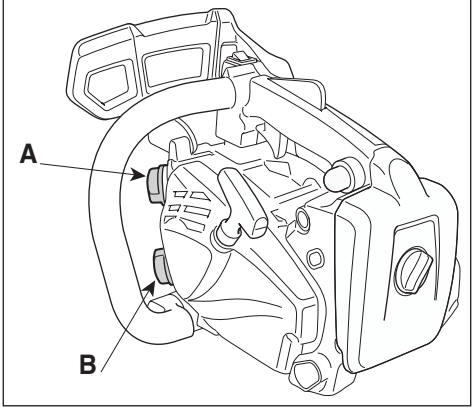

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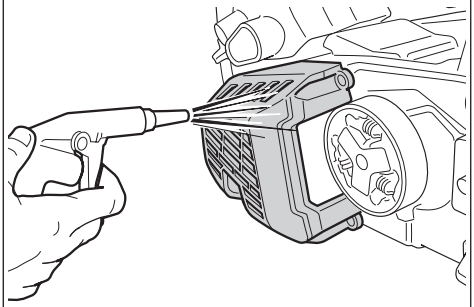

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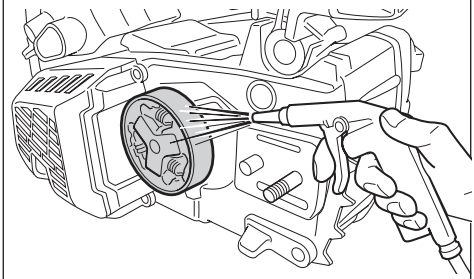

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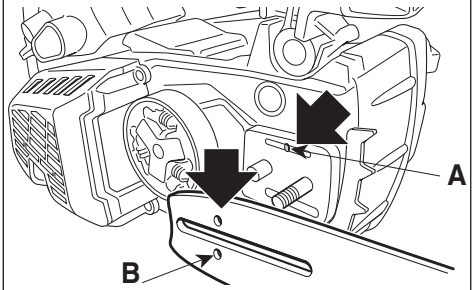

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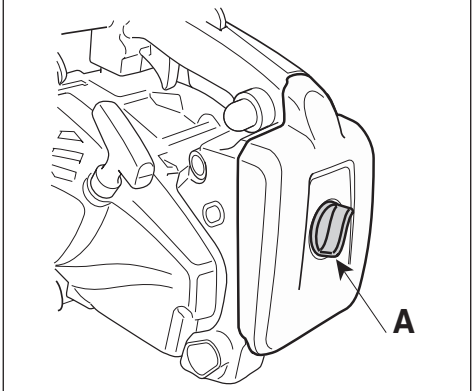

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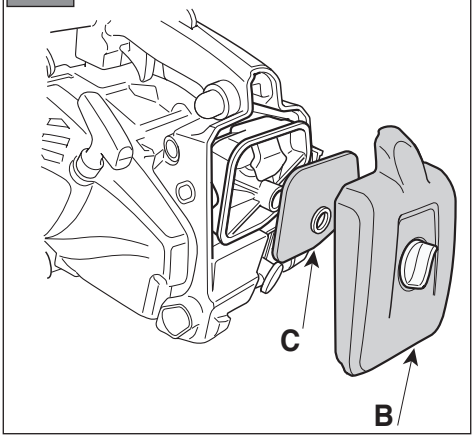

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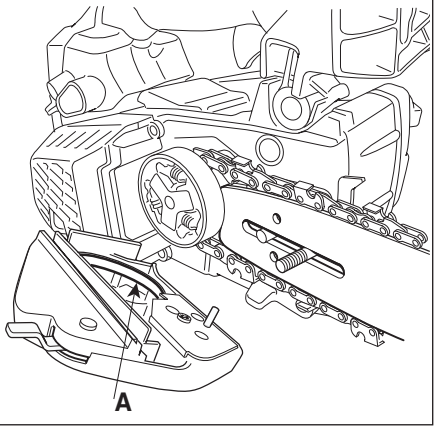

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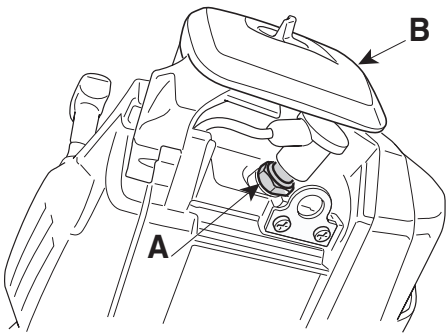

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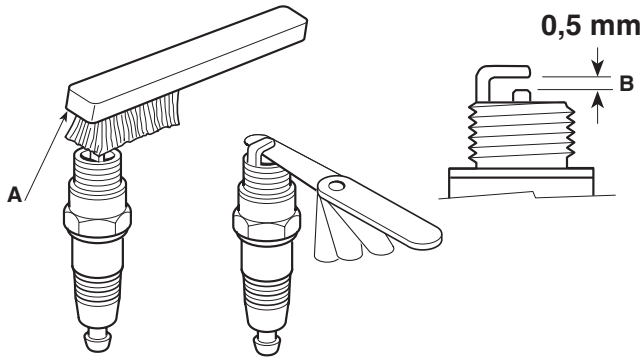

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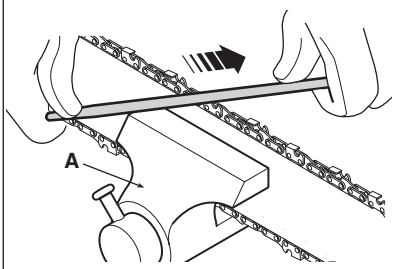

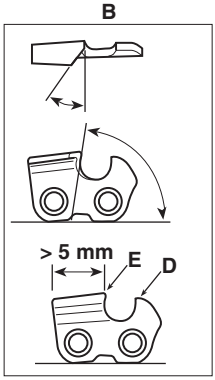

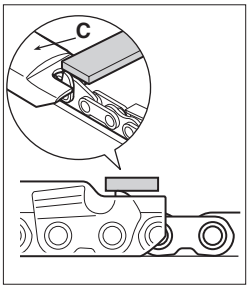

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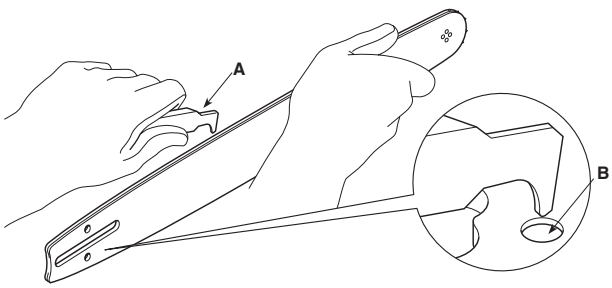
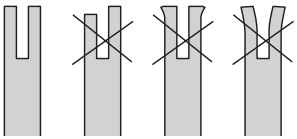




[1]	DATI TECNICI		SPR 276	SPR 276 C
[2]	Motore		[3] Monocilindrico 2 tempi	[3] Monocilindrico 2 tempi
[4]	Cilindrata	cm^3	26,9	26,9
[5]	Potenza	kW	0,7	0,7
[6]	Numero di giri al minimo	min^{-1}	3000 ±300	3000 ±300
[7]	Numero di giri massimo ammissibile senza carico con catena montata	min^{-1}	12000	12000
[8]	Capacità del serbatoio carburante	cm^3	215	215
[9]	Capacità del serbatoio dell'olio	cm^3	170	170
[10]	Consumo specifico alla massima potenza	g/kWh	570	570
[11]	Miscela (Benzina : Olio 2 tempi)		50 : 1 = 2%	50 : 1 = 2%
[12]	Lunghezza di taglio	cm	24,5	27
[13]	Spessore catena	mm	0,050" / 1,27 mm	0,050" / 1,27 mm
[14]	Denti / passo del pignone catena		6 / 0,375"	8 / 0,25"
[15]	Velocità massima della catena	m/s	22,86	20,32
[16]	Candela		CHAMPION RY4C / TORCH CMR6A / CDK CMR6A	CHAMPION RY4C / TORCH CMR6A / CDK CMR6A
[17]	Peso (con serbatoio vuoto, senza barra e catena)	kg	3,3	3,3
[18]	Dimensioni			
[19]	Lunghezza	mm	260	260
[20]	Larghezza	mm	240	240
[21]	Altezza	mm	225	225
[22]	Livello di pressione sonora (in base alla ISO 22868:2011)	dB(A)	99	99
[23]	Incertezza di misura	dB(A)	3	3
[24]	Livello di potenza sonora misurato (in base alla ISO 22868:2011)	dB(A)	108,1	108,1
[23]	Incertezza di misura	dB(A)	3	3
[25]	Livello di potenza sonora garantito	dB(A)	111	111
[26]	Vibrazioni trasmesse alla mano sull'impugnatura anteriore (in base alla ISO 22867:2011) (*)	m/s^2	6,93	6,93
[23]	Incertezza di misura	m/s^2	1,5	1,5
[27]	Vibrazioni trasmesse alla mano sull'impugnatura posteriore (in base alla ISO 22867:2011) (*)	m/s^2	7,24	7,24
[23]	Incertezza di misura	m/s^2	1,5	1,5

(*) ATTENZIONE! Il valore delle vibrazioni può variare in funzione dell'utilizzo della macchina e del suo allestimento ed essere superiore a quello indicato. É necessario stabilire le misure di sicurezza a protezione dell'utilizzatore che devono basarsi sulla stima del carico generato dalle vibrazioni nelle condizioni reali di utilizzo. A tale proposito devono essere prese in considerazione tutte le fasi del ciclo di funzionamento quali ad esempio, lo spegnimento o il funzionamento a vuoto.

[32] **TABELLA PER LA CORRETTA COMBINAZIONE DI BARRA E CATENA (Cap. 16)**						
[33] **PASSO**	[34] **BARRA**			[35] **CATENA**	[36] **MODELLO**	
[37] Pollici	[38] Lunghezza: Pollici / cm	[39] Larghezza scanalatura: Pollici / mm	[40] Modello	[40] Modello	**SPR 276**	**SPR 276 C**
3/8"	10" / 25 cm	0,050" / 1,27	100SDEA041	91PX040X	✓	-
1/4"	10" / 25 cm	0,050" / 1,27	AT10-50	E1-25AP060T	-	✓

[1] **BG - ТЕХНИЧЕСКИ ДАННИ**
[2] Двигател
[3] Едноцилиндров двутактов
[4] Обем на цилиндъра
[5] Мощност
[6] Брой обороти минимум
[7] Брой максимално допустими обороти без натоварване при монтирана верига
[8] Вместимост на горивния резервоар
[9] Вместимост на масления резервоар
[10] Специфичен разход при максимална мощност
[11] Смес (Бензин : Масло двутактов)
[12] Дължина на срязване
[13] Дебелина веригата
[14] Зъбци / стъпка на пиньона на предавателна верига
[15] Максимална скорост на веригата
[16] Свещ
[17] Тегло (с празен резервоар, без шина, верига)
[18] Размери
[19] Дължина
[20] Ширина
[21] Височина
[22] Ниво на звуковото налягане (съгласно ISO 22868:2011)
[23] Несигурност на измерване
[24] Ниво на измерената звукова мощност (съгласно ISO 22868:2011)
[25] Гарантирано ниво на звукова мощност
[26] Вибрации, предадени на ръката върху предна дръжка (съгласно ISO 22867:2011)
[27] Вибрации, предадени на ръката върху задна дръжка (съгласно ISO 22867:2011)

[32] ТАБЛИЦА ЗА ПРАВИЛНА КОМБИНАЦИЯ ОТ ШИНА И ВЕРИГА (Гл. 16)

[33] Стъпка
[34] Шина
[35] Верига
[36] Модел
[37] Инчове
[38] Дължина: Инчове / см
[39] Широчина жлеб: Инчове / мм
[40] Модел

(*) ВНИМАНИЕ! Стойността на вибрациите може да варира в зависимост от използването на машината и нейното оборудване и може да бъде по-голяма от тази посочената. Необходимо е да се определят мерките за безопасност целящи защита на потребителя, които трябва да се базират върху оценка на създалото се натоварване от вибрациите, при условия на реално използване. За тази цел, трябва да се имат предвид всички фази на цикъла на работа, като например, изключването или работа на празен ход.

[1] **BS - TEHNIČKI PODACI**
[2] Motor
[3] Jednocilindični dvotaktni
[4] Kubikaža
[5] Snaga
[6] Broj obrtaja pri minimalnoj brzini
[7] Maksimalni dozvoljeni broj obrtaja bez opterećenja s namontiranim lancem
[8] Kapacitet rezervoara za gorivo
[9] Kapacitet rezervoara za ulje
[10] Specifična potrošnja pri maksimalnoj snazi
[11] Smjesa goriva (Benzin : Ulje 2-taktni)
[12] Dužina sečenja
[13] Debljina lanca
[14] Zubi / korak zupčanika lanca
[15] Maksimalna brzina lanca
[16] Svjećica

[17] Težina (sa praznim rezervoarom, bez vodilica lanca, lanac)
[18] Dimenzije
[19] Dužina
[20] Širina
[21] Visina
[22] Razina zvučnog pritiska (na osnovu standarda ISO 22868:2011)
[23] Merna nesigurnost
[24] Izmjerena razina zvučne snage (na osnovu standarda ISO 22868:2011)
[25] Garantirana razina zvučne snage
[26] Vibracije koje se prenose na ruku na prednjem rukohvatu (na osnovu standarda ISO 22867:2011)
[27] Vibracije koje se prenose na ruku na zadnjem rukohvatu (na osnovu standarda ISO 22867:2011)

[32] TABLICA ZA ISPRAVNO KOMBINIRANJE VODILICA I LANCA (Pogl. 16)
[33] KORAK
[34] VODILICA LANCA
[35] LANAC
[36] MODEL
[37] Inč
[38] Dužina: Inč / cm
[39] Širina žlijeba: Inč / mm
[40] Model

(*) PAŽNJA! Vrednost vibracija može varirati u zavisnosti od upotrebe mašine i njene opreme i može biti veća od navedene. Neophodno je utvrditi sigurnosne mere za zaštitu rukovaoca koje se moraju zasnivati na proceni opterećenja koje stvaraju vibracije u realnim uslovima upotrebe. U tu svrhu treba uzeti u obzir sve faze ciklusa rada, kao što su, na primer, gašenje ili rad na prazno.

[1] **CS - TECHNICKÉ PARAMETRY**
[2] Motor
[3] Jednoválcový dvoutaktní
[4] Zdvihový objem
[5] Výkon
[6] Minimální otáčky
[7] Maximální přípustné otáčky bez zátěže s namontovaným řetězem
[8] Kapacita palivové nádržky
[9] Kapacita olejové nádrže
[10] Specifická spotřeba při maximálním výkonu
[11] Směs (Benzin: olej pro dvoutaktní motory)
[12] Délka řezání
[13] Tloušťka řetězu
[14] Zuby / krok pastorku řetězu
[15] Maximální rychlost řetězu
[16] Zapalovací svíčka
[17] Hmotnost (s prázdnou nádržkou, bez vodicí lišta, řetěz)
[18] Rozměry
[19] Délka
[20] Šířka
[21] Výška
[22] Úroveň akustického tlaku (dle ISO 22868:2011)
[23] Nepřesnost měření
[24] Naměřená hladina akustického výkonu (dle ISO 22868:2011)
[25] Zaručená úroveň akustického výkonu
[26] Vibrace přenášené na ruku na přední rukojeti (dle ISO 22867:2011)
[27] Vibrace přenášené na ruku na zadní rukojeti (dle ISO 22867:2011)

[32] TABULKA PRO URČENÍ SPRÁVNÉ KOMBINACE VODICÍ LIŠTY A ŘETĚZU (kap. 16)
[33] ROZTEČ
[34] VODICÍ LIŠTA
[35] ŘETĚZ

[36] MODEL
[37] Palce
[38] Délka: Palce / cm
[39] Šířka drážky: Palce / mm
[40] Model

(*) UPOZORNĚNÍ! Hodnota vibrací se může měnit v závislosti na použití stroje a jeho výbavy a může být vyšší než uvedená hodnota. Je třeba určit bezpečnostní a ochranná opatření uživatele, která musí vycházet z odhadu zátěže produkované vibracemi v reálných podmínkách použití. Za tímto účelem je třeba vzít v úvahu všechny fáze cyklu činnosti, jako například vypnutí a činnost naprázdno.

[1] **DA - TEKNISKE DATA**
[2] Motor
[3] Encylindret, 2 takts
[4] Slagvolumen
[5] Effekt
[6] Omdrejningstal i minimum
[7] Max. omdrejningstal tilladt uden belastning med monteret kæde
[8] Brændstofstankens kapacitet
[9] Olietankens kapacitet
[10] Specifikt forbrug ved max. effekt
[11] Blanding (Benzin: 2-taktsolie)
[12] Klippelængde
[13] Tyk kæde
[14] Antal tænder/deling på kædehjul
[15] Maksimal hastighed kæde
[16] Tændrør
[17] Vægt (med tom tank, uden sværd, kæde)
[18] Mål
[19] Længde
[20] Bredde

[21] Højde
[22] Lydtryksniveau (i henhold til ISO 22868:2011)
[23] Usikkerhed ved målingen
[24] Målt lydeffektniveau (i henhold til ISO 22868:2011)
[25] Garanteret lydeffektniveau
[26] Vibrationer overført til hånden på forreste håndtag (i henhold til ISO 22867:2011)
[27] Vibrationer overført til hånden på bagerste håndtag (i henhold til ISO 22867:2011)

[32] TABEL TIL KORREKT KOMBINATION AF SVÆRD OG KÆDE (Kap. 16)
[33] MELLEMRUM
[34] SVÆRD
[35] KÆDE
[36] MODEL
[37] Tommer
[38] Længde: Tommer / cm
[39] Sporbredde: Tommer / mm
[40] Model

(*) ADVARSEL! Vibrationsniveauet kan ændre sig afhængigt af brugen af maskinen og dens udstyr, og niveauet kan være højere end det oplyste. Det er nødvendigt at fastlægge sikkerhedsforanstaltningerne til beskyttelse af brugeren. De skal være baseret på et skøn af belastningen som følge af vibrationerne ved den konkrete brug. I denne forbindelse er det nødvendigt at tage højde for alle funktionscyklussens faser; eksempelvis slukning eller funktion uden produkt.

[1] **DE - TECHNISCHE DATEN**
[2] Motor
[3] Einzylindrisch 2-Takt
[4] Hubraum
[5] Leistung
[6] Leerlaufdrehzahl
[7] Zulässige maximale Drehzahl ohne Belastung mit montierter Kette
[8] Inhalt des Kraftstofftanks
[9] Inhalt Öltank
[10] Spezifischer Verbrauch bei maximaler Leistung
[11] Gemisch (Benzin: Zweitaktöl)
[12] Schnittlänge
[13] Dicke der Kette
[14] Zähne / Teilung des Kettenrads
[15] Höchstgeschwindigkeit Kette
[16] Zündkerze
[17] Gewicht (mit leerem Tank, ohne Schwert, Kette)
[18] Abmessungen
[19] Länge
[20] Breite
[21] Höhe
[22] Schalldruckpegel (gemäß ISO 22868:2011)
[23] Messungenauigkeit
[24] Gemessener Schallleistungspegel (gemäß ISO 22868:2011)
[25] Garantierter Schallleistungspegel
[26] Zulässige auf die Hand am vorderen Handgriff übertragene Vibrationen (gemäß ISO 22867:2011)
[27] Zulässige auf die Hand am hinteren Handgriff übertragene Vibrationen (gemäß ISO 22867:2011)

[32] TABELLE FÜR DIE KORREKTE KOMBINATION VON SCHWERT UND KETTE (Kap. 16)
[33] GLIEDLÄNGE
[34] SCHWERT
[35] KETTE
[36] MODELLE

[37] Zoll
[38] Länge: Zoll / cm
[39] Nutbreite: Zoll / mm
[40] Modelle

(*) ACHTUNG! Der Schwingugswert kann sich abhängig vom Einsatz und Einsatzwerkzeugen ändern und auch über dem angegebenen Wert liegen. Es besteht die Notwendigkeit, Sicherheitsmaßnahmen zum Schutz des Bedieners festzulegen, die auf einer Abschätzung der Belastung durch Schwingungen während der tatsächlichen Benutzungsbedingungen beruhen (hierbei sind alle Anteile des Betriebszyklus zu berücksichtigen, beispielsweise Zeiten, in denen das Elektrowerkzeug abgeschaltet ist, und solche, in denen es zwar eingeschaltet ist, aber ohne Belastung läuft).

[1] **EL - ΤΕΧΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ**
[2] Κινητήρας
[3] Μονοκύλινδρος 2 χρόνων
[4] Κυβισμός
[5] Ισχύς
[6] Ελάχιστος αριθμός περιστροφών
[7] Μέγιστος επιτρεπόμενος αριθμός χωρίς φορτίο με την αλυσίδα συναρμολογημένη
[8] Χωρητικότητα του ντεπόζιτου καυσίμου
[9] Χωρητικότητα του δοχείου λαδιού
[10] Ειδική κατανάλωση στην μέγιστη ισχύ
[11] Μείγμα (Βενζίνη: λάδι για δίχρονους κινητήρες)
[12] Μήκος κοπής
[13] Πάχος της αλυσίδας
[14] Δόντια / βήμα του πινιόν αλυσίδας
[15] Μέγιστη ταχύτητα αλυσίδας
[16] Μπουζί
[17] Βάρος (με το ντεπόζιτο άδειο, χωρίς λαμα, αλυσιδα)
[18] Διαστάσεις
[19] Μήκος
[20] Πλάτος
[21] Ύψος

[22] Στάθμη ηχητικής πίεσης (με βάση το πρότυπο ISO 22868:2011)
[23] Αβεβαιότητα μέτρησης
[24] Μετρημένη στάθμη ηχητικής ισχύος (με βάση το πρότυπο ISO 22868:2011)
[25] Στάθμη εγγυώμενης ηχητικής ισχύος
[26] Κραδασμοί στο χέρι στην εμπρός χειρολαβή (με βάση το πρότυπο ISO 22867:2011)
[27] Κραδασμοί στο χέρι στην πίσω χειρολαβή (με βάση το πρότυπο ISO 22867:2011)

[32] ΠΙΝΑΚΑΣ ΓΙΑ ΤΟ ΣΩΣΤΟ ΣΥΝΔΥΑΣΜΟ ΜΠΑΡΑΣ ΚΑΙ ΑΛΥΣΙΔΑΣ (Κεφ. 16)
[33] Β'ΗΜΑ
[34] ΛΑΜΑ
[35] ΑΛΥΣΙΔΑ
[36] ΜΟΝΤΈΛΟ
[37] Ίντσες
[38] Μήκος: Ίντσες / cm
[39] Εγκοπής: Ίντσες / mm
[40] Μοντέλο

(*) ΠΡΟΣΟΧΗ! Η τιμή των δονήσεων μπορεί να μεταβάλλεται σε σχέση με την χρήση της μηχανής και της χρήσης του εξοπλισμού και να είναι μεγαλύτερη από την υποδεικνυόμενη. Είναι αναγκαίος ο καθορισμός των μέτρων ασφάλειας και προστασίας του χρήστη που θα πρέπει να βασίζονται στον υπολογισμό του φορτίου που παράγεται από τις δονήσεις στις πραγματικές συνθήκες χρήσης. Για αυτό το σκοπό θα πρέπει να λαμβάνονται υπόψη όλες οι φάσεις του κύκλου λειτουργίας όπως για παράδειγμα, η απενεργοποίηση ή η χρήση σε κενό.

[1] **EN - TECHNICAL DATA**
[2] Engine
[3] 2-stroke single cylinder
[4] Displacement
[5] Power
[6] Idle RPM
[7] Maximum admissible rpm without load with chain installed
[8] Fuel tank capacity
[9] Oil tank capacity
[10] Maximum power specific consumption
[11] Fuel mixture (Petrol: 2-stroke oil)
[12] Cutting length
[13] Chain gauge
[14] Chain pinion teeth / pitch
[15] Maximum chain speed
[16] Spark plug
[17] Weight (with empty tank, without bar, chain)
[18] Dimensions
[19] Length
[20] Width
[21] Height
[22] Sound pressure level (according to ISO 22868:2011)
[23] Measurement uncertainty
[24] Measured sound power level (according to ISO 22868:2011)
[25] Guaranteed sound power level
[26] Vibrations transmitted to hand on front handle (according to ISO 22867:2011)
[27] Vibrations transmitted to hand on rear handle (according to ISO 22867:2011)

[32] CORRECT BAR AND CHAIN COMBINATION TABLE (Chap. 16)
[33] PITCH
[34] BAR
[35] CHAIN

[36] MODEL
[37] Inches
[38] Length: Inches / cm
[39] Groove width: Inches / mm
[40] Model

(*) WARNING! The vibration value may vary according to the usage of the machine and its fitted equipment, and be higher than the one indicated. Safety measures must be established to protect the user and must be based on the load estimate generated by the vibrations in real usage conditions. In this regard, all the operational cycle phases must be taken into consideration, such as switching off or idle running.

[1] **ES - DATOS TÉCNICOS**
[2] Motor
[3] Monocilíndrico 2 tiempos
[4] Cilindrada
[5] Potencia
[6] Número de revoluciones por mínimo
[7] Número de revoluciones máximo admisible sin carga con cadena montada
[8] Capacidad del depósito carburante
[9] Capacidad del depósito del aceite
[10] Consumo específico a la máxima potencia
[11] Mezcla (Gasolina: Aceite 2 Tiempos
[12] Longitud de corte
[13] Espesor de la cadena
[14] Dientes / paso del piñón cadena
[15] Velocidad máxima de la cadena
[16] Bujía
[17] Peso (con depósito vacío, sin barra, cadena)
[18] Dimensiones
[19] Longitud
[20] Anchura

[21] Altura
[22] Nivel de presión sonora (según ISO 22868:2011)
[23] Incertidumbre de medida
[24] Nivel de potencia sonora medido (según ISO 22868:2011)
[25] Nivel de potencia sonora garantizado
[26] Vibraciones transmitidas a la mano en la empuñadura anterior (según ISO 22867:2011)
[27] Vibraciones transmitidas a la mano en la empuñadura posterior (según ISO 22867:2011)

[32] TABLA PARA LA CORRECTA COMBINACIÓN DE BARRA Y CADENA (Cap. 16)
[33] PASO
[34] BARRA
[35] CADENA
[36] MODELO
[37] Pulgadas
[38] Longitud: Pulgadas / cm
[39] Anchura ranura: Pulgadas / mm
[40] Modelo

(*) ¡ATENCIÓN! El valor de las vibraciones puede variar según el uso de la máquina y de su montaje y ser superior al indicado. Se aconseja establecer las medidas de seguridad de protección del usuario que deben descender estimando la carga generada por las vibraciones en las condiciones reales de uso. Para dicha finalidad deben tomarse en consideración todas las fases del ciclo de funcionamiento como por ejemplo, el apagado o el funcionamiento en vacío.

[1] **ET - TEHNILISED ANDMED**
[2] Mootor
[3] Ühe silindriga 2-taktiline
[4] Töömaht
[5] Võimsus
[6] Pöörete arv tühikäigul
[7] Maksimumpöörete lubatud arv ilma pingeta monteeritud ketiga
[8] Kütusepaagi maht
[9] Õlipaagi maht
[10] Eritarbimine maksimumvõimsusel
[11] Segu (bensiin: õli 2 taktiline)
[12] Lõikepikkus
[13] Keti paksus
[14] Keti hammasratta hambad / samm
[15] Maksimaalne kiirus kett
[16] Küünal
[17] Kaal (tühja paagiga, ilma saelatt, kett)
[18] Mõõtmed
[19] Pikkus
[20] Laius
[21] Kõrgus
[22] Helirõhu tase (vastavalt ISO 22868:2011)
[23] Mõõtmisebatäpsus
[24] Helivõimsuse mõõdetav tase (vastavalt ISO 22868:2011)
[25] Garanteeritud helivõimsuse tase
[26] Eesmiselt käepidemelt käele üle kanduv vibratsioon (vastavalt ISO 22867:2011)
[27] Tagumiselt käepidemelt käele üle kanduv vibratsioon (vastavalt ISO 22867:2011)

[32] SAEKETI JA -PLAADI KOMBINATSIOONIDE TABEL (16. ptk)
[33] SAMM
[34] SAELATT
[35] KETT
[36] MUDELIL
[37] Tolli
[38] Pikkus: Tolli / cm
[39] Kanali Laius: Tolli / mm
[40] Mudelil

(*) TÄHELEPANU! Vibratsioonitase võib varieeruda vastavalt masina kasutusele ja tema ettevalmistusele ja olla näidatust suurem. Vajalik on määrata kasutajast lähtuvad ohutusmäärad, mis peavad baseeruma tegelikes kasutustingimustes vibratsiooni poolt tekitatud laetuse hindamisel. Sellel eesmärgil tuleb arvestada kõiki töötsükli lõike, nagu näiteks väljalülitamine või töötamine tühikäigul.

[1] **FI - TEKNISET TIEDOT**
[2] Moottori
[3] Yksisylinterinen 2-vaiheinen
[4] Tilavuus
[5] Teho
[6] Kierroslukumäärä minimissä
[7] Sallittu suurin mahdollinen kierroslukumäärä ilman kuormaa ketju asennettuna
[8] Polttoainesäiliön tilavuus
[9] Öljysäiliön tilavuus
[10] Ominaiskulutus täystehoilla
[11] Polttoaineseos (Bensiini: Öljy 2-tahti)
[12] Leikkauksen pituus
[13] Ketjun paksuus
[14] Ketjun hammasrattaan hampaat / hammasluku
[15] Maksiminopeus ketju
[16] Sytytystulppa
[17] Paino (säiliö tyhjänä, ilman terälevy, ketju)
[18] Koko
[19] Pituus
[20] Leveys
[21] Korkeus
[22] Äänenpaineen taso (ISO 22868:2011:n mukaisesti)
[23] Epätarkka mittaus
[24] Mitattu äänitehotaso (ISO 22868:2011:n mukaisesti)
[25] Taattu äänitehotaso
[26] Etukahvaan kohdistuva tärinä (ISO 22867:2011:n mukaisesti)
[27] Takakahvaan kohdistuva tärinä (ISO 22867:2011:n mukaisesti)

[32] TAULUKKO TERÄLEVYN JA KETJUN OIKEA YHDISTELMÄ (Luku 16)
[33] KULKU
[34] TERÄLEVY
[35] KETJU
[36] MALLI
[37] Tuumaa
[38] Pituus: Tuumaa / cm
[39] Uran Leveys: Tuumaa / mm
[40] Malli

(*) HUOMAUTUS! Tärinäarvo voi vaihdella laitteen käyttötoiminnon mukaan ja laitteen kokoonpanon mukaan ja arvo voi olla korkeampi kuin annettu arvo. Käyttäjän turvallisuuden takaamiseksi on ryhdyttävä tarvittaviin varotoimenpiteisiin, jotka määritellään todellisessa käytössä arvioidun tärinäkuormituksen pohjalta. Tämän vuoksi on huomioitava kaikki toimintasyklin vaiheet kuten esim. laitteen sammuttaminen tai laitteen tyhjäkäynti.

[1] **FR - CARACTÉRISTIQUES TECHNIQUES**
[2] Moteur
[3] Monocylindrique à 2 temps
[4] Cylindrée
[5] Puissance
[6] Nombre de tours au minimum
[7] Nombre de tours maximum admissible sans charge avec la chaîne montée
[8] Capacité du réservoir de carburant
[9] Capacité du réservoir de l'huile
[10] Consommation spécifique à la puissance maximum
[11] Mélange (Essence : Huile 2 temps)
[12] Longueur de coupe
[13] Épaisseur de la chaîne
[14] Dents / pas du pignon de chaîne
[15] Vitesse maximale de la chaîne
[16] Bougie
[17] Poids (avec le réservoir vide, sans guide-chaîne, chaîne)
[18] Dimensions
[19] Longueur
[20] Largeur
[21] Hauteur
[22] Niveau de pression sonore (selon la norme ISO 22868:2011)
[23] Incertitude de la mesure
[24] Niveau de puissance sonore mesuré (selon la norme ISO 22868:2011)
[25] Niveau de puissance sonore garanti
[26] Vibrations transmises à la main sur la (selon la norme ISO 22867:2011) poignée antérieure
[27] Vibrations transmises à la main sur la poignée postérieure (selon la norme ISO 22867:2011)

[32] TABLEAU DES COMBINAISONS CORRECTES ENTRE GUIDE-CHAINE ET CHAINE (Chap. 16)
[33] PAS
[34] GUIDE-CHAÎNE
[35] CHAÎNE
[36] MODÈLE
[37] Pouces
[38] Longueur: Pouces / cm
[39] Largeur Rainure: Pouces / mm
[40] Modèle

(*) ATTENTION! La valeur des vibrations peut varier en fonction de l'emploi de la machine et de son agencement, et peut devenir supérieure à la valeur qui est indiquée. Il est nécessaire d'établir les mesures de sécurité pour la protection de l'utilisateur; ces dernières doivent être fondées sur l'estimation de la charge engendrée par les vibrations dans les conditions réelles d'utilisation. A ce sujet, il faut prendre en considération toutes les phases du cycle de fonctionnement, comme par exemple l'extinction ou le fonctionnement à vide.

[1] **HR - TEHNIČKI PODACI**
[2] Motor
[3] Jednocilindrični, 2-taktni
[4] Radni obujam
[5] Snaga
[6] Broj okretaja na minimumu
[7] Najveći dopušteni broj okretaja bez opterećenja, s montiranim lancem
[8] Zapremina spremnika goriva
[9] Zapremina spremnika ulja
[10] Specifična potrošnja pri maksimalnoj snazi
[11] Mješavina (benzin: ulje za 2-taktne motore)
[12] Dužina rezanja
[13] Debljina lanca
[14] Zupci / korak lančanika
[15] Maksimalna brzina lanca
[16] Svjećica
[17] Težina (s praznim spremnikom, bez vodilica, lanac)
[18] Dimenzije
[19] Dužina
[20] Širina
[21] Visina
[22] Razina zvučnog tlaka (na osnovu standarda ISO 22868:2011)
[23] Mjerna nesigurnost
[24] Izmjerena razina zvučne snage (na osnovu standarda ISO 22868:2011)
[25] Zajamčena razina zvučne snage
[26] Vibracije koje se prenose na ruku putem prednje ručke (na osnovu standarda ISO 22867:2011)
[27] Vibracije koje se prenose na ruku putem stražnje ručke (na osnovu standarda ISO 22867:2011)

[32] TABLICA ZA PRAVILNO KOMBINIRANJE VODILICE I LANCA (16. pog.)
[33] KORAK
[34] VODILICA
[35] LANAC
[36] MODEL
[37] Inč
[38] Dužina: Inč / cm
[39] Širina Užljebljenja: Inč / mm
[40] Model

(*) POZOR! Ovisno o korištenju stroja i njegove opreme, vrijednost vibracija može biti drugačija te biti i viša od one naznačene. Potrebno je utvrditi sigurnosne mjere radi zaštite korisnika, na temelju procjene opterećenja kojeg stvaraju vibracije u stvarnim uvjetima korištenja. U vezi s tim treba uzeti u obzir sve faze radnog ciklusa, kao na primjer isključivanje ili rad na prazno.

[1] **HU - MŰSZAKI ADATOK**
[2] Motor
[3] Egyhengeres, kétütemű
[4] Hengerűrtartalom
[5] Teljesítmény
[6] Fordulatszám alapjáraton
[7] Maximális megengedett fordulatszám terhelés nélkül, felszerelt lánccal
[8] Üzemanyagtartály kapacitása
[9] Olajtartály kapacitása
[10] Fajlagos fogyasztás a legnagyobb teljesítményen
[11] Keverék (Benzin: Olaj kétütemű motorokhoz)
[12] Vágáshossz
[13] Vastag lánc
[14] Lánc fogaskerék fogai / fogosztása
[15] Maximális sebesség lánc
[16] Gyertya
[17] Súly (üres tartállyal, anélkül vezetőlemez, lánc)
[18] Méretek
[19] Hosszúság
[20] Szélesség
[21] Magasság
[22] Hangnyomásszint (ISO 22868:2011 szabvány alapján)
[23] Mérési bizonytalanság
[24] Mért zajteljesítmény szint (ISO 22868:2011 szabvány alapján)
[25] Garantált zajteljesítmény szint
[26] Az elülső markolatnál a kéz felé továbbított rezgések (ISO 22867:2011 szabvány alapján)
[27] A hátsó markolatnál a kéz felé továbbított rezgések (ISO 22867:2011 szabvány alapján)

[32] HELYES VEZETŐLEMEZ/LÁNC KOMBINÁCIÓK TÁBLÁZATA (16. fej.)
[33] LÁNCOSZTÁS
[34] VEZETŐLEMEZ
[35] LÁNC
[36] MODEL
[37] Hüvelyk
[38] Hossz: Hüvelyk / cm
[39] Vájat Szélesség: Hüvelyk / mm
[40] Model

(*) FIGYELEM! A vibrációérték változhat a gép alkalmazási funkciója és felszereltsége függvényében, és meghaladhatja a megadott értéket. Meg kell határozni a felhasználó védelmét szolgáló biztonsági intézkedéseket, melyeket a valós használati feltételek melletti vibrációs terhelések becslésére kell alapozni. Ebből a célból figyelembe kell venni az üzemi ciklus összes fázisát, például a kikapcsolást és az üresben való üzemelést is.

[1] **LT - TECHNINIAI DUOMENYS**
[2] Variklis
[3] Mono cilindrinis 2 fazių
[4] Variklio tūris
[5] Galia
[6] Apsisukimų numeris minimaliu režimu
[7] Maksimaliai priimtinas apsisukimų numeris be aprovimo su sumontuota grandine
[8] Degalų bako talpa
[9] Alyvos bakelio pajėgumas yra
[10] Maksimalaus galingumo specifinis sunaudojimas
[11] Mišinys (Benzinas: alyva 2 taktų)
[12] Pjovimo ilgis
[13] Storis grandinės
[14] Dantys / grandinės dantratuko žingsnis
[15] Maksimalus greitis grandinės
[16] Žvakė
[17] Svoris (tuščiu bakeliu, be strypas, grandinė)
[18] Išmatavimai
[19] Ilgis
[20] Plotis

[21] Aukštis
[22] Garso slėgio lygis (pagal „ISO 22868:2011“)
[23] Matavimo netikslumas
[24] Išmatuotas garso galios lygis pagal „ISO 22868:2011“)
[25] Garantuotas garso galios lygis
[26] Vibracijos lygis, priekinė rankena pagal „ISO 22867:2011“)
[27] Vibracijos lygis, galinė rankena pagal „ISO 22867:2011“)

[32] TAISYKLINGO JUOSTOS IR GRANDINĖS SUDERINIMO LENTELĖ (16 skyr.)
[33] ŽINGSNIS
[34] STRYPAS
[35] GRANDINĖ
[36] MODELIS
[37] Colis
[38] Ilgis: Colis / cm
[39] Griovelio Plotis: Colis / mm
[40] Modelis

(*) DĖMESIO! Vibracijų vertė gali keistis atsižvelgiant į įrenginio darbo pobūdį ir jo paruošimą ir gali viršyti nurodytas vertes. Būtina nustatyti saugumo matus vartotojams, kurie turi remtis sugeneruotais vibracijų apkrovos apskaičiavimais realiomis naudojimo sąlygomis. Dėl šios priežasties turi būti atsižvelgiama į visas veikimo ciklo fazes, kaip pavyzdžiui, išjungimas arba veikimas tuščiai.

[1] **LV - TEHNISKIE DATI**
[2] Dzinējs
[3] Viencilindra, divtaktu
[4] Cilindru tilpums
[5] Jauda
[6] Apgriezienu skaits minimālajā režīmā
[7] Maksimālais pieļaujamais apgriezienu skaits bez slodzes ar uzstādītu ķēdi
[8] Degvielas tvertnes tilpums
[9] Eļļas tvertnes tilpums
[10] Īpatnējais patēriņš pie maksimālās jaudas
[11] Maisījums (benzīns : eļļa 2-taktu dzinējiem)
[12] Griešanas garums
[13] Ķēdes biezums
[14] Ķēdes zobrata zobi / solis
[15] Maksimālais ātrums ķēdes
[16] Svece
[17] Svars (ar tukšu tvertni, bez sliede, ķēde)
[18] Izmēri
[19] Garums
[20] Platums
[21] Augstums
[22] Skaņas spiediena līmenis (Saskaņā ar ISO 22868:2011 prasībām)
[23] Mērījuma kļūda
[24] Mērītās skaņas jaudas līmenis (Saskaņā ar ISO 22868:2011 prasībām)
[25] Garantētais skaņas jaudas līmenis
[26] No priekšējā roktura rokai nododamā vibrācija (Saskaņā ar ISO 22867:2011 prasībām)
[27] No aizmugurējā roktura rokai nododamā vibrācija (Saskaņā ar ISO 22867:2011 prasībām)

[32] SLIEŽU UN ĶĒŽU PAREIZU KOMBINĀCIJU TABULA (16. nod.)
[33] SOLIS
[34] SLIEDE
[35] ĶĒDE

[36] MODELIM
[37] Collas
[38] Garums: Collas / cm
[39] Rievas Platums: Collas / mm
[40] Modelim

(*) UZMANĪBU! Vibrāciju vērtība ir atkarīga no mašīnas lietošanas veida un no aprīkojuma, tādējādi, tā var pārsniegt norādīto vērtību. Izstrādājot drošības un mašīnas lietotāja aizsardzības noteikumus ir jāizmanto vibrāciju noslodzes novērtējums, kas veidojas reālos lietošanas apstākļos. Tādējādi, ir jāņem vērā visi darbības cikla posmi, piemēram, izslēgšana vai darbība tukšgaitā.

[1] **МК - ТЕХНИЧКИ ПОДАТОЦИ**
[2] Мотор
[3] Моноцилиндричен двотактен
[4] Капацитет
[5] Моќност
[6] Број на вртежи на минимум
[7] Број на дозволени вртежи на максимум без оптоварување со поставен ланец
[8] Капацитет на резервоарот за гориво
[9] Капацитет на резервоарот за масло
[10] Специфична потрошувачка на максимална моќност
[11] Мешавина (бензин: масло за двотактни мотори)
[12] Должина на сечење
[13] Дебелина на синџирот
[14] Запци на ланецот / степен на запченикот на ланецот
[15] Максималната брзина на снабдување
[16] Свеќичка
[17] Тежина (со празен резервоар, без лост, ланец)
[18] Димензии
[19] Должина
[20] Ширина

[21] Висина
[22] Ниво на звучен притисок (според ISO 22868:2011)
[23] Несигурност за мерење
[24] Измерено ниво на бучава (според ISO 22868:2011)
[25] Гарантирано ниво на бучава
[26] Вибрации што се пренесуваат на раце од предната рачка (според ISO 22867:2011)
[27] Вибрации што се пренесуваат на раце од задната рачка (според ISO 22867:2011)

[32] ТАБЕЛА ЗА ПРАВИЛНА ҚОМБИНАЦИЈА НА ЛОСТОВИ И СИНЏИРИ (поглавје 16)
[33] СТЕПЕН
[34] ЛОСТ
[35] ЛАНЕЦ
[36] МОДЕЛ
[37] инчи
[38] Должина: инчи / см
[39] Жлеб: инчи / мм
[40] Модел

(*) ВНИМАНИЕ! Вредноста на вибрациите може да варира од функцијата на примената на машината и на нејзините поставки и е супериорна како што е посочена. Неопходно е да се воспостават мерките на безбедност и заштита за корисникот што треба да го поднесат генерираното оптоварување од вибрациите во реални услови на употреба. Таквата намера треба да ги земе во предвид сите фази на циклусот на работа, како што се на пример исклучувањето или работа на празно.

[1] **NL - TECHNISCHE GEGEVENS**
[2] Motor
[3] Tweetakt-ééncilindermotor
[4] Cilinderinhoud
[5] Vermogen
[6] Minimaal toerental
[7] Maximaal toegestaan toerental zonder lading met ketting gemonteerd
[8] Vermogen brandstofreservoir
[9] Vermogen van het oliereservoir
[10] Specifiek gebruik bij maximaal vermogen
[11] Mengeling (Benzine : Olie 2-takt)
[12] Lengte van de snit
[13] Diktè van de ketting
[14] Tanden / steek van het kettingwiel
[15] Maximum speed ketting
[16] Bougie
[17] Gewicht (bij leeg reservoir, zonder blad, ketting)
[18] Afmetingen
[19] Lengte
[20] Breedte
[21] Hoogte
[22] Niveau geluidsdruk (op basis van ISO 22868:2011)
[23] Meetonzekerheid
[24] Gemeten geluidsvermogenniveau (op basis van ISO 22868:2011)
[25] Gegarandeerd geluidsniveau
[26] Trillingen overgedragen op de hand op de voorste handgreep (op basis van ISO 22867:2011)
[27] Trillingen overgedragen op de hand op de achterste handgreep (op basis van ISO 22867:2011)

[32] TABEL VOOR DE CORRECTE COMBINATIE VAN BLAD EN KETTING (Hfdstk. 16)
[33] STAP
[34] BLAD
[35] KETTING
[36] MODEL
[37] Duimen
[38] Lengte: Duimen / cm
[39] Breedte Groef: Duimen / mm
[40] Model

(*) LET OP: De waarde van de trillingen kan variëren in functie van het gebruik van de machine en zijn uitrusting en hoger zijn dan de aangegeven waarde. De veiligheidsmaatregelen ter bescherming van de gebruiker moeten bepaald worden door zich te baseren op de schatting van de lading veroorzaakt door de trillingen onder de werkelijke gebruiksomstandigheden. Hiervoor moeten alle fases van de werkingscyclus in beschouwing genomen worden zoals bijvoorbeeld het uitzetten en de onbelaste werking.

[1] **NO - TEKNISKE DATA**
[2] Motor
[3] Ensylindret, totakts
[4] Slagvolum
[5] Ytelse
[6] Turtall ved tomgang
[7] Maks tillatt turtall uten belastning med montert kjede
[8] Drivstofftankens kapasitet
[9] Oljetankens kapasitet
[10] Forbruk ved maks effekt
[11] Blanding (Bensin: 2-takts olje)
[12] Kuttelengde
[13] Tykk kjede
[14] Tannhjulets tenner / tagger
[15] Toppfart kjede
[16] Tennplugg
[17] Vekt (med tom tank, uten sverd, kjede)
[18] Mål
[19] Lengde
[20] Bredde
[21] Høyde
[22] Lydtrykknivå (iht. ISO 22868:2011)
[23] Måleusikkerhet
[24] Målt lydeffektnivå (iht. ISO 22868:2011)
[25] Garantert lydeffektnivå
[26] Vibrasjoner overført til hånden på det fremre håndtaket (iht. ISO 22867:2011)
[27] Vibrasjoner overført til hånden på det bakre håndtaket (iht. ISO 22867:2011)

[32] TABELL FOR RIKTIG KOMBINASJON AV SVERD OG KJEDE (Kap. 16)
[33] MELLOMROM
[34] SVERD
[35] KJEDE
[36] MODELL
[37] Tommer
[38] Lengde: Tommer / cm
[39] Sporbredde: Tommer / mm
[40] Modell

(*) ADVARSEL! Vibrasjonsnivået kan variere avhengig av bruken av maskinen samt hvordan den er utstyrt, og det kan være høyere enn det angitte. Det er nødvendig å fastsette sikkerhetstiltak for beskyttelse av brukeren som må basere seg på et estimat av belastningen som skyldes vibrasjoner under reelle bruksbetingelser. I den sammenheng må en ta i betraktning samtlige faser i funksjonssyklusen, herunder for eksempel avslåing om tomgang.

[1] **PL - DANE TECHNICZNE**
[2] Silnik
[3] Jednocylindrowy 2-suwowy
[4] Pojemność skokowa
[5] Moc
[6] Liczba obrotów na minimum
[7] Liczba obrotów maksymalnie dopuszczalna, bez obciążenia z łańcuchem zamontowanym
[8] Pojemność zbiornika paliwa
[9] Pojemność zbiornika oleju
[10] Zużycie specyficzne przy maksymalnej mocy
[11] Mieszanka (Benzyna : Olej do silnika 2-suwowego)
[12] Długość cięcia
[13] Grubość łańcucha
[14] Zęby / podziałka koła zębatego łańcucha
[15] Maksymalna prędkość łańcucha
[16] Świeca zapłonowa
[17] Ciężar (z pustym zbiornikiem, bez prowadnica, łańcuch)
[18] Wymiary
[19] Długość
[20] Szerokość
[21] Wysokość
[22] Poziom ciśnienia akustycznego (zgodnie z ISO 22868:2011)
[23] Niepewność pomiaru
[24] Mierzony poziom mocy akustycznej (zgodnie z ISO 22868:2011)
[25] Gwarantowany poziom mocy akustycznej
[26] Wibracje przekazywane na rękę poprzez uchwyt przedni (zgodnie z ISO 22867:2011)
[27] Wibracje przekazywane na rękę poprzez uchwyt tylny (zgodnie z ISO 22867:2011)

[32] TABELA PRAWIDŁOWEJ KOMBINACJI PROWADNICY I ŁAŃCUCHA (rozdz. 16)
[33] ROZSTAW
[34] PROWADNICA
[35] ŁAŃCUCH
[36] MODELU
[37] Cale
[38] Długość: Cale / cm
[39] Szerokość Bruzdy: Cale / mm
[40] Modelu

(*) UWAGA! Wartość wibracji może się zmieniać w zależności od użycia urządzenia i jego wyposażenia i może być wyższa od tej wskazanej. Niezbędnym jest ustalenie środków bezpieczeństwa w celu ochrony użytkownika, które muszą się opierać na oszacowaniu ładunku wytwarzanego przez wibracje w rzeczywistych warunkach użytkowania. W tym celu powinny być brane pod uwagę wszystkich fazy cyklu funkcjonowania, jak na przykład wyłączanie lub działanie na biegu jałowym.

[1] **PT - DADOS TÉCNICOS**
[2] Motor
[3] Monocilindro 2 tempos
[4] Cilindrada
[5] Potência
[6] Número de rotações no mínimo
[7] Número máximo permitido de rotações sem carga com corrente montada
[8] Capacidade do tanque de combustível
[9] Capacidade do tanque do óleo
[10] Consumo específico na potência máxima
[11] Mistura (Gasolina : Óleo 2 tempos)
[12] Comprimento de corte
[13] Spessore catena
[14] Dentes / distância entre eixos do pinhão da corrente
[15] Velocidade máxima da cadeia
[16] Vela
[17] Peso (com tanque vazio, sem lâmina-guia, corrente)
[18] Dimensões
[19] Comprimento
[20] Largura
[21] Altura
[22] Nível de pressão sonora (com base na ISO 22868:2011)
[23] Incerteza de medição
[24] Nível medido de potência sonora (com base na ISO 22868:2011)
[25] Nível garantido de potência sonora
[26] Vibrações transmitidas na mão sobre a pega dianteira (com base na ISO 22867:2011)
[27] Vibrações transmitidas na mão sobre a pega traseira (com base na ISO 22867:2011)

[32] TABELA PARA A COMBINAÇÃO CORRETA DE BARRA E CORRENTE (Cap. 16)
[33] PASSO
[34] LÂMINA-GUIA
[35] CORRENTE
[36] MODELO
[37] Polegadas
[38] Comprimento: Polegadas / cm
[39] Largura do canal: Polegadas / mm
[40] Modelo

(*) ATENÇÃO! O valor das vibrações pode variar em função da utilização da máquina e da sua preparação e ser acima daquele indicado. É necessário estabelecer as amedidas de segurança para a protecção do utilizador que devem ser baseadas na estima de carga gerada pelas vibrações nas condições reais de utilização. Para tal fim, devem ser levadas em consideração todas as fases do ciclo de funcionamento tais como por exemplo, o desligamento ou o funcionamento em vazio.

[1] **RO - DATE TEHNICE**
[2] Motor
[3] Monocilindric în 2 timpi
[4] Cilindree
[5] Putere
[6] Număr minim de rotaţii pe minut
[7] Numărul maxim admis de rotaţii fără sarcină cu lanţul montat
[8] Capacitate rezervor carburant
[9] Capacitate rezervor ulei
[10] Consum specific la capacitate maximă
[11] Amestec (Benzină: Ulei pt. motoare în doi timpi)
[12] Lungime tăiere
[13] Grosimea lanţului
[14] Dinţi / pas pinion lanţ
[15] Maximă de viteză a lanţului
[16] Bujie
[17] Greutate (cu rezervorul gol, fara bară, lanţ)
[18] Dimensiuni
[19] Lungime
[20] Lăţime
[21] Înălţime
[22] Nivel de presiune sonoră (în conformitate cu ISO 22868:2011)
[23] Nesiguranţă în măsurare
[24] Nivel de putere sonoră măsurat (în conformitate cu ISO 22868:2011)
[25] Nivel de putere sonoră garantat
[26] Vibraţii percepute de mâna operatorului, pe mânerul anterior (în conformitate cu ISO 22867:2011)
[27] Vibraţii percepute de mâna operatorului, pe mânerul posterior (în conformitate cu ISO 22867:2011)

[32] TABEL PENTRU O ASOCIERE CORECTĂ BARĂ-LANŢ (Cap. 16)
[33] PAS
[34] BARĂ
[35] LANŢ

[36] MODELUL
[37] Ţoli
[38] Lungime: Ţoli / cm
[39] Lăţime Canelură: Ţoli / mm
[40] Modelul

(*) ATENŢIE! Valoarea vibraţiilor depinde de modul în care este folosită maşina şi de dotările acesteia, putând să fie mai mare decât cea indicată. Stabilirea măsurilor de siguranţă este necesară pentru protecţia utilizatorului şi trebuie să se bazeze pe estimarea sarcinii transmise prin vibraţii în condiţii reale de utilizare. În acest scop, trebuie luate în considerare toate fazele ciclului de funcţionare, cum ar fi, de exemplu, oprirea sau proba de funcţionare în gol.

[1] **RU - ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ**
[2] Двигатель
[3] Одноцилиндровый 2-тактный
[4] Объем
[5] Мощность
[6] Число оборотов в минимальном режиме
[7] Максимальное допустимое число оборотов без нагрузки с установленной цепью
[8] Объем топливного бака
[9] Объем масляного бака
[10] Удельный расход топлива при максимальной мощности
[11] Смесь (Бензин : Масло 2 такта)
[12] Длина резки
[13] Толщина цепи
[14] Зубцы / шаг звездочки цепи
[15] Максимальная скорость цепи
[16] Свеча
[17] Вес (при пустом баке, без шина, цепь)
[18] Габариты
[19] Длина
[20] Ширина

[21] Высота
[22] Уровень звукового давления (согласно ISO 22868:2011)
[23] Неточность размеров
[24] Уровень измеренной звуковой мощности (согласно ISO 22868:2011)
[25] Гарантируемый уровень звуковой мощности
[26] Вибрация, сообщаемая руке на передней рукоятке (согласно ISO 22867:2011)
[27] Вибрация, сообщаемая руке на задней рукоятке (согласно ISO 22867:2011)

[32] ТАБЛИЦА ПРАВИЛЬНЫХ КОМБИНАЦИЙ ШИНА-ЦЕПЬ (гл. 16)
[33] ШАГ
[34] ШИНА
[35] ЦЕПЬ
[36] МОДЕЛЬ
[37] Дюймы
[38] Длина: Дюймы / см
[39] Ширина Канавки: Дюймы / мм
[40] Модель

(*) ВНИМАНИЕ! Уровень вибрации может меняться в зависимости от применения машины и ее оснащения, и превышать указанный уровень. Необходимо установить правила техники безопасности для защиты пользователя, которые должны основываться на оценке нагрузки, сгенерированной вибрацией в фактических условиях эксплуатации. Для этого необходимо принять во внимание все этапы рабочего цикла, включая выключение и холостой ход.

[1] **SK - TECHNICKÉ PARAMETRE**
[2] Motor
[3] Jednoválcový dvoutaktní
[4] Zdvihový objem
[5] Výkon
[6] Voľnobežné otáčky
[7] Maximálne prípustné otáčky bez záťaže s namontovanou reťazou
[8] Kapacita palivovej nádrže
[9] Kapacita olejovej nádrže
[10] Špecifická spotreba pri maximálnom výkone
[11] Zmes (benzín: olej pre 2-taktné motory)
[12] Rezná dĺžka
[13] Hrúbka reťaze
[14] Zuby / rozstup reťazovky
[15] Maximálna rýchlosť reťaze
[16] Zapaľovacia sviečka
[17] Hmotnosť (s prázdnou nádržou, bez vodiaca lišta, reťaz)
[18] Rozmery
[19] Dĺžka
[20] Šírka
[21] Výška
[22] Úroveň akustického tlaku (na základe ISO 22868:2011)
[23] Nepresnosť merania
[24] Hladina nameraného akustického výkonu (na základe ISO 22868:2011)
[25] Zaručená úroveň akustického výkonu
[26] Vibrácie prenášané na ruku na prednej rukoväti (na základe ISO 22867:2011)
[27] Vibrácie prenášané na ruku na zadnej rukoväti (na základe ISO 22867:2011)
[32] TABUĽKA PRE URČENIE SPRÁVNEJ KOMBINÁCIE VODIACEJ LIŠTY A REŤAZE (kap. 16)
[33] ROZSTUP
[34] VODIACA LIŠTA
[35] REŤAZ

[36] MODEL
[37] Palce
[38] Dĺžka: Palce / cm
[39] Šírka drážky: Palce / mm
[40] Model

(*) UPOZORNENIE! Hodnota vibrácií sa môže meniť v závislosti na použití stroja a jeho výbavy a môže byť vyššia ako je uvedené. Je potrebné určiť bezpečnostné a ochranné opatrenia užívateľa, ktoré musia vychádzať z odhadu zaťaženia vibráciami v reálnych podmienkach použitia. Pre tento účel je potrebné vziať do úvahy všetky fázy činnosti, ako napríklad vypnutie a činnosť naprázdno.

[1] **SL - TEHNIČNI PODATKI**
[2] Motor
[3] Enocilindrski dvotaktni 2 stopnji
[4] Gibna prostornina motorja
[5] Moč
[6] Število obratov na minimumu
[7] Maksimalno dovoljeno število obratov brez obremenitve z montirano verigo
[8] Prostornina rezervoarja za gorivo
[9] Prostornina oljnega rezervoarja
[10] Specifična poraba pri največji moči
[11] Mešanica (bencin : olje 2-taktni motor)
[12] Dolžina reza
[13] Debelina verige
[14] Zobniki / hod verižnega pastorka
[15] Največja hitrost verige
[16] Svečka
[17] Teža (s praznim rezervoarjem, brez drog, veriga)
[18] Dimenzije
[19] Dolžina
[20] Širina

[21] Višina
[22] Raven zvočnega pritiska (glede na ISO 22868:2011)
[23] Nezanesljivost meritve
[24] Raven izmerjene zvočne moči (glede na ISO 22868:2011)
[25] Raven zagotovljene zvočne moči
[26] Vibracije, ki se prenašajo na roko na sprednjem ročaju (glede na ISO 22867:2011)
[27] Vibracije, ki se prenašajo na roko na zadnjem ročaju (glede na ISO 22867:2011)

[32] TABELA ZA PRAVILNO KOMBINACIJO MEČA IN VERIGE (Pogl. 16)
[33] KORAK
[34] DROG
[35] VERIGA
[36] MODEL
[37] Palci
[38] Dolžina: Palci / cm
[39] Širina Utora: Palci / mm
[40] Model

(*) POZOR! Vrednost vibracij lahko variira glede na uporabo stroja in na njegovo opremo in je lahko višja od označene. Treba je določiti varnostne ukrepe za zaščito uporabnika, ki morajo izhajati iz ocene obremenitve, ki jo povzročijo vibracije v realnih pogojih delovanja. V ta namen je treba upoštevati vse faze ciklusa delovanja kot so na primer izklop ali delovanje v mrtvem hodu.

[1] **SR - TEHNIČKI PODACI**
[2] Motor
[3] Jednocilindični dvotaktni
[4] Kubikaža
[5] Snaga
[6] Broj obrtaja pri minimalnoj brzini
[7] Maksimalni dozvoljeni broj obrtaja bez opterećenja s namontiranim lancem
[8] Kapacitet rezervoara goriva
[9] Kapacitet rezervoara za ulje
[10] Specifična potrošnja pri maksimalnoj snazi
[11] Smesa goriva (Benzin : Ulje 2-taktni)
[12] Dužina sečenja
[13] Debljina lanca
[14] Zubi / korak zupčanika lanca
[15] Maksimalna brzina lanca
[16] Svećica
[17] Težina (sa praznim rezervoarom, brez mač, lanac)
[18] Dimenzije
[19] Dužina
[20] Širina
[21] Visina
[22] Nivo zvučnog pritiska (na osnovu standarda ISO 22868:2011)
[23] Merna nesigurnost
[24] Izmeren nivo zvučne snage (na osnovu standarda ISO 22868:2011)
[25] Garantovan nivo zvučne snage
[26] Vibracije koje se prenose na ruku na prednjoj dršci (na osnovu standarda ISO 22867:2011)
[27] Vibracije koje se prenose na ruku na zadnjoj dršci (na osnovu standarda ISO 22867:2011)

[32] TABELA ZA PRAVILNO KOMBINOVANJE MAČA I LANCA (Pogl. 16)
[33] KORAK
[34] MAČ
[35] LANAC

[36] MODEL
[37] Inč
[38] Dužina: Inč / cm
[39] Širina žleba: Inč / mm
[40] Model

(*) PAŽNJA! Vrednost vibracija može varirati u zavisnosti od upotrebe mašine i njene opreme i može biti veća od navedene. Neophodno je utvrditi sigurnosne mere za zaštitu rukovaoca koje se moraju zasnivati na proceni opterećenja koje stvaraju vibracije u realnim uslovima upotrebe. U tu svrhu treba uzeti u obzir sve faze ciklusa rada, kao što su, na primer, gašenje ili rad na prazno.

[1] **SV - TEKNISKA SPECIFIKATIONER**
[2] Motor
[3] 2-takts encylindrig
[4] Cylindervolym
[5] Effekt
[6] Minimal varvtal
[7] Maximalt varvtal tillåtet utan belastning med monterad kedja
[8] Bränsletankens kapacitet
[9] Oljetankens kapacitet
[10] Specifik förbrukning vid maximal effekt
[11] Bränsleblandning (Bensin: tvåtaktsolja)
[12] Skärningslängd
[13] Kedjans tjocklek
[14] Tänder / kuggstångens tandavstånd på kedjan
[15] Maximal hastighet kedjan
[16] Tändstift
[17] Vikt (med tom tank, utan stång, kedja)
[18] Dimensioner
[19] Längd
[20] Bredd

[21] Höjd
[22] Ljudtrycksnivå (enligt ISO 22868:2011)
[23] Tvivel med mått
[24] Uppmätt ljudeffektnivå (enligt ISO 22868:2011)
[25] Garanterad ljudeffektnivå
[26] Vibrationer på handen på det främre handtaget (enligt ISO 22867:2011)
[27] Vibrationer på handen på det bakre handtaget (enligt ISO 22867:2011)

[32] TABELL FÖR RÄTT KOMBINATION AV SVÄRD OCH KEDJA (Kap. 16)
[33] STEG
[34] STÅNG
[35] KEDJA
[36] MODELL
[37] Tum
[38] Längd: Tum / cm
[39] Rännans Bredd: Tum / mm
[40] Modell

(*) VARNING! Vibrationsvärdet kan variera i funktion till användningen av maskinen och dess utrustning och överstiga det som anges. Säkerhetsanordningar måste förutses för att skydda användaren och skall grunda sig på uppskattningen av den belastning som skapas av vibrationerna under verkliga användningsförhållanden. Av detta skäl skall samtliga faser under funktionscykeln tas hänsyn till, som till exempel en släckning eller funktion under tomgång.

[1] **TR - TEKNİK VERİLER**
[2] Motor
[3] Tek silindirli 2 zamanlı
[4] Silindir
[5] Güç
[6] Minimum devir sayısı
[7] Zincir monte edili iken, yük olmaksızın kabul edilebilir maksimum devir sayısı
[8] Yakıt deposunun kapasitesi
[9] Yağ deposunun kapasitesi
[10] Maksimum güçte özgül tüketim
[11] Karışım (Benzin : Yağ 2 zamanlı)
[12] Kesim uzunluğu
[13] Kalınlık zincir
[14] Zincir pinyonunun dişleri / adımı
[15] Maksimum hız zinciri
[16] Buji
[17] Ağırlık (boş depo ile, pala, zincir olmadan)
[18] Ebatlar
[19] Uzunluk
[20] Genişlik
[21] Yükseklik
[22] Ses basınç seviyesi (ISO 22868:2011'e dayalı)
[23] Ölçü belirsizliği
[24] Ölçülen ses güç seviyesi (ISO 22868:2011'e dayalı)
[25] Garanti edilen ses güç seviyesi
[26] Ön kabza üzerindeki ele aktarılan titreşim (ISO 22867:2011'e dayalı)
[27] Arka kabza üzerindeki ele aktarılan titreşim (ISO 22867:2011'e dayalı)

[32] DOĞRU PALA VE ZİNCİR BİRLEŞİMİ TABLOSU (Böl. 16)
[33] ADIM
[34] PALA
[35] ZİNCİR
[36] MODELI
[37] İnç
[38] Uzunluk: İnç / cm
[39] Yiv Genişliği: İnç / mm
[40] Modeli

(*) DİKKAT! Titreşimlerin değeri, makinenin kullanımına ve donatımına göre değişebilir ve belirtilen değerden fazla olabilir. Kullanıcıyı korumak için güvenlik tedbirlerinin belirlenmesi gerekir; bunlar, gerçek kullanım şartlarında titreşimler tarafından üretilen yükün tahminine dayanmalıdır. Bu amaçla işleme devrinin tüm aşamaları (örneğin kapanma veya boş işleme) dikkate alınmalıdır.

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

INDEX

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 been previously indicated and aim to prevent damage to the machine or cause other damage.*

The ⚠ symbol highlights danger. Failure to observe the warning can lead to the risk of injury to oneself and others and/or damage.

The paragraphs inside a grey dotted frame refer to optional features not available on all the models referred to in this booklet. Check if the feature is available on your model.

Whenever reference is made to a position on the machine "front", "back", "left" or "right" hand side, this refers to the operator's working position.

1.2 REFERENCES

1.2.1 Figures

The figures in these instructions for use are numbered 1, 2, 3, etc.
The components indicated in the figures are identified with letters A, B, C, and so on.
Reference to component C in figure 2 is indicated with the wording: “See fig. 2.C” or simply “(Fig. 2.C)”.
The figures are given as a guide only. The actual pieces can differ from those illustrated in this document.

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

⚠ ***Become familiar with the controls and the proper use of the machine. Learn how to stop the machine quickly. Failure to follow the warnings and instructions may result in fire and/or serious injury.***

- Never allow children or persons unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.
- Never use the machine if the user is tired or unwell, or has taken medicine, drugs, alcohol or any substances which may slow their reflexes and compromise their 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.
- If the machine is sold or lent to others, make sure that the operator reads the user instructions contained in this manual.
- It takes specific training to use the machine for felling and delimbing.

2.2 PRELIMINARY PROCEDURES

Personal Protective Equipment (PPE)

- Always wear slim fitting protective clothing with slash-proof protection, anti-vibration gloves, helmet, protective goggles, half-mask respirator, protective earplugs, cut resistant safety boots with non–slip soles.
- Never wear scarves, shirts, necklaces, bracelets, loose flowing clothing, laces or ties or any hanging or flapping accessory that could catch in the machine or in any objects or materials in the work area.
- Tie your hair back if it is long.

Internal combustion engines: fuel

⚠ **DANGER**! Petrol and the fuel mixture are highly flammable!

- Keep the petrol and fuel mixture in approved fuel containers, in a safe place, away from any naked lights or heat sources.
- Keep the fuel containers and storage area free of sawdust, branches, leaves, or excessive grease.
- Keep the containers out of the reach of children.
- Do not smoke when preparing the mixture, when filling or topping up with fuel or when handling the fuel.
- Use a funnel to top up with fuel only in the open air.
- Do not inhale fuel fumes.
- Never remove the tank cap or add fuel whilst the engine is running or when the engine is hot.
- Open the fuel tank slowly to allow the pressure inside to decrease gradually.
- Do not approach the tank opening with a naked flame to check its contents.
- If you have spilt some fuel, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until the fuel has evaporated and fuel vapours have dissipated.
- Immediately clean up all traces of fuel spilt on the machine or on the ground.
- Replace caps of all fuel tanks and containers securely.
- Never start the machine in the same place in which you refilled it with fuel; the engine must be started in an area at least 3 metres from where you refuelled.
- If fuel is spilt on clothing, change clothing before starting the engine.

2.3 DURING OPERATION

Work Area

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can develop. All starting operations must be carried out in an open or well ventilated area. Always remember that exhaust fumes are toxic.
- When starting up the machine, do not direct the silencer and therefore the exhaust fumes towards flammable materials.
- 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. Ask another adult to keep the children under supervision.
- Check that there is nobody within at least 15 metres of the machine's range of operation.
- Where possible, avoid working on wet, slippery ground or in any case on uneven or steep ground that does not guarantee stability for the operator;
- Pay careful attention to uneven ground hills, dips, slopes, hidden hazards and obstacles that could limit visibility.
- Be very careful near ravines, ditches or embankments.

- Look out for traffic when using the machine near the road.
- To avoid the risk of fire, do not leave the machine with the engine hot on leaves, dry grass or other flammable material.

Behaviour

- When operating, the machine must always be firmly held in both hands, (left hand on the front hand grip and the right hand on the rear hand grip, even if the operator is left-handed) at a safe distance from all body parts.
- Always use caution and take on a firm and well balanced position.
- Avoid using unstable ladders or platforms.
- Avoid working alone or in an isolated place, in case you have to find help after an accident.
- Never run, always walk.
- Make sure the bar does not come into contact with foreign bodies/obstacles and try to prevent any material from being hurled by the moving chain. Kickback may occur if the bar comes into contact with an obstacle. Kickback occurs when the tip of the chain comes in contact with an object or when the wood contracts and jams the chain during sawing. This contact with the tip of the chain can cause a rapid backward motion, pushing the guide bar up and towards the operator. This also happens when the chain is jammed along the upper part of the bar. In both cases, kickback can cause the operator to lose control of the chainsaw, leading to serious consequences. To prevent kickbacks, take all appropriate precautions provided below:
  - Hold the saw firmly, with the thumbs and fingers around the chainsaw grips, and position your body and arms so that you can resist the force of a kickback.
  - Do not fully extend the arms and do not saw above shoulder height.
  - Only use the guide bar and chains recommended by the manufacturer.
  - Follow the manufacturer's instructions regarding sharpening and maintenance of the chainsaw.
- Avoid exposure to dust and sawdust produced by the chain when cutting.
- Do not touch the engine parts which heat up during use. Burns hazard.
- ⚠ If something breaks or an accident occurs during work, turn off the engine immediately and move the machine away to prevent further damage; if an accident occurs with injuries or third parties are injured, carry out the first aid measures most suitable for the situation immediately and contact the medical authorities for any necessary health care. Carefully remove any debris which could cause damage or injury to persons or animals if ignored.
- ⚠ Prolonged exposure to vibrations can cause injuries and neurovascular disorders (also called "Raynaud's syndrome" or "white finger"), especially to people suffering from circulation disorders. The symptoms appear in the hands, wrists and fingers and are shown through loss of sensitivity, torpor, itching, pain and discolouring of or structural changes to the skin. These effects can be worsened by low ambient temperatures and/or by gripping the hand grips excessively tightly. If the symptoms occur, the length of time the machine is used must be reduced and a doctor consulted.

- It is recommended that those operating chainsaws for trimming and performing height work aided by a rope and belt harness:
  - should never work alone;
  - should be assisted by an operator on the ground who has received training on appropriate emergency procedures;
  - should have received training on secure climbing and work positions for this type of job;
  - are supplied with belt harnesses, ropes, flat belts with end loops, clasp clips and other recommended additional safety equipment or any other system that prevents the operator and chainsaw from falling.

Restrictions for use

- Do not use the machine if you are unable to hold it with both hands or keep it steady on your legs while working.
- Never work inside tree tops unless you have received specific training in this respect.
- Never use the machine with damaged, missing or incorrectly positioned guards.
- Don't use the machine if the attachments/ tools are not installed in their seats.
- Never disengage, deactivate, remove or tamper with the safety systems/ micro switches installed.
- Do not alter the engine adjustments, nor over-run it. If the engine is forced to work with an excessive number of rotations, the risk of personal injury increases.
- Do not strain the machine too much and do not use a small machine for heavy duty work. If you use the right machine, you will reduce the risk of hazards and improve the quality of your work.

2.4 MAINTENANCE, STORAGE

Ensure regular maintenance and correct storage to maintain machine safety and high performance levels.

Maintenance

- To reduce the risk of fire, regularly check the machine for oil and/or fuel leaks.
- ⚠ The noise and vibration levels shown in these instructions are the maximum levels for use of the machine. The use of an unbalanced cutting element, the excessive speed of movement, or the absence of maintenance have a significant influence on noise emissions and vibrations. Consequently, it is necessary to take preventive steps to eliminate possible damage due to high levels of noise and stress from vibration. Maintain the machine well, wear ear protection devices and take breaks whilst working.

Storage

- Do not store the machine with fuel in the tank in an area where fuel vapours could reach a naked light, a spark or a strong heat source.
- To reduce fire risks, do not leave containers with debris inside a room.

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. Use this machine at reasonable times of the day only (not early morning or late evening when the noise could cause disturbance).
- A certain amount of chain lubricating oil is released into the environment when the machine is running, so only use biodegradable oils made specifically for this use. Use of a mineral oil or engine oil causes serious damage to the environment.
- 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.
- Comply with local regulations for the disposal of waste materials
- When the machine is withdrawn from service, do not dispose of it in the environment, but take it to a waste disposal facility in accordance with the local regulations in force.

3. GETTING TO KNOW THE MACHINE

3.1 DESCRIPTION OF THE MACHINE AND PLANNED USE

This machine is a forestry tool and precisely a chainsaw designed for trimming and pruning work performed directly on the tree.

The machine basically consists of:

- a 2-stroke internal combustion engine which runs on a air cooled oil-petrol mix;
- a cutting unit;
- a hand grip system.

Drive is transmitted by a drive sprocket to a sharp toothed chain that runs along a grooved guide bar.

The movement is transmitted from the engine to the chain by a centrifugal clutch that prevents the chain from moving when the engine is running at minimum speed.

The operator is able to operate the machine with two hands, using the front and rear hand grips, and use the main controls, always remaining at a safe distance from the cutting means.

3.1.1 Intended use

⚠ ***This special type of chainsaw has been designed specifically for the trimming of trees and must only be used by a trained operator following carefully planned and secure work instructions. This chainsaw is only destined to the trimming of trees when the above-mentioned conditions are complied with. It is generally conceived for use with two hands, just like a standard chainsaw. Some national regulations can restrict use of the machine.***

This machine was designed and manufactured for:

- trimming and cutting of tall tree tops;
- cutting hedges, trunks or wooden beams, the diameter of which depends on the length of the guide bar;
- cutting wood only
- use by one operator only;
- use by qualified operators who have received specific training on tree maintenance.

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:

- trimming hedges;
- carving operations;
- sectioning pallets, crates and various packing materials;
- sectioning furniture or other materials with nails, screws or other metal components;
- butchering meat;
- using the machine to cut materials other than wood (plastic materials, building materials);
- using the machine to lift, move or split objects;
- using the machine while fastened to fixed supports;
- using cutting means other than those found in the "Technical Data" table. Serious injury and wound hazard.
- using of the machine by more than one person.

IMPORTANT *Improper use of the machine will invalidate the warranty, relieve the Manufacturer from all liability, 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. It is intended for "DIY" use only.

3.2 SAFETY SIGNS

The machine has various symbols on it (Fig. 2). They are used to remind the operator of the behaviour to follow to use it with the necessary attention and caution.

Meaning of symbols:

WARNING! DANGER! Failure to use this machine correctly can be hazardous for oneself and others

WARNING! Read the instruction manual before using the machine.

Anyone operating the machine under normal conditions for continuous daily use may be exposed to a noise level equal to or exceeding 85 dB (A). Wear ear protectors, safety goggles and a protective helmet.

Wear gloves and safety boots!

BEWARE OF KICKBACK! Kickback is the rapid and uncontrollable backward motion of the chainsaw in the direction of the operator. Always work in complete safety. Use chains with safety links that limit kickback.

Never hold the machine with one hand! Hold the machine firmly with both hands to control the machine and reduce the risk of kickback.

Use suitable measures to protect feet, legs, hands and arms.

This chainsaw is only suitable for use by operators who have received training on tree maintenance (see instruction manual).

IMPORTANT *Any damaged or illegible decals must be replaced. Order replacement decals from an Authorised Service Centre.*

3.3 PRODUCT IDENTIFICATION LABEL

The product identification label provides the following data (Fig. 1):

1. Sound power level
2. Conformity marking
3. Month / Year of manufacture
4. Type of machine
5. Serial number
6. Name and address of Manufacturer

7. Article code
8. Emission number

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

IMPORTANT *Quote the information on the product identification label whenever you contact an Authorised Service Centre.*

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. Engine: supplies the drive power to the cutting means.
B. Front hand grip: support hand grip located on the front of the chainsaw. This should be grasped using the left hand.
C. Rear hand grip: support hand grip located on the rear of the chainsaw. This should be grasped using the right hand. This hand grip is fitted with the main throttle controls.
D. Front hand guard: protection device seated between the front hand grip and the toothed chain, to protect the hand against injuries should it slip off the hand grip. This guard is used as a device to trigger the chain brake (par. 5.7).
E. Fastening point: coupling device used to fasten the chainsaw to a rope or belt, and then hook it onto the operator's harness using clasp clips;
F. Guide bar: supports and guides the toothed chain.
G. Toothed chain: cutting element, consisting of drive links fitted with small blades called "teeth" and side connections held in place by rivets. It is kept taut by a belt tension regulator.
H. Chain lock pin: safety device positioned on the guide bar base that intercepts the chain and prevents any uncontrolled movements if it breaks or falls off the bar.
I. Spiked bumper: device installed opposite the guide bar assembly point acting as a pivot when it comes into contact with a tree or trunk.
J. Spiked bumper guard: spiked bumper cover to be fitted during handling, transportation or storage of the machine. This guard must be removed when using the machine.
K. Bar cover guard: chainsaw cover on the guide bar to be fitted during handling, transportation or storage of the machine.

4. ASSEMBLY

IMPORTANT *The safety regulations to follow are described in chap. 2. Strictly comply with these indications to avoid serious risks or dangers.*

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.

⚠ Unpacking and completing the assembly should be done on a flat and stable surface, with enough space for machine handling and its packaging, always making use of suitable equipment. Do not use the machine until all the indications provided in the "ASSEMBLY" section have been carried out.

4.1 ASSEMBLY COMPONENTS

The packaging holds the components needed for assembly as listed in the table below:

Description
Guide bar fitted with bar cover
Toothed chain
Key
Chain sharpening file
Documentation

4.1.1 Unpacking

1. Carefully 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. Remove the machine from the box.
5. Dispose of the box and packaging in compliance with local regulations.

4.2 ASSEMBLY OF THE GUIDE BAR AND TOOTHED CHAIN

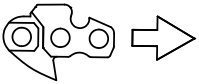
⚠ Always wear heavy duty gloves when handling the bar and chain. Mount the bar and chain very carefully so as not to

impair the safety and efficiency of the machine. If in doubt, contact your dealer.

⚠ ***Perform all operations with the engine off.***

⚠ ***Before assembling the bar, check that the chain brake is not engaged (par. 5.7).***

1. Unscrew the nut (Fig. 3.A) and remove the clutch cover (Fig. 3.B) to get to the drive sprocket and the point where the bar is fitted.
2. Remove the plastic spacer (Fig. 3.C); this spacer must be used exclusively when transporting the machine in its packaging and must not be used at any other time.
3. Mount the bar (Fig. 4.A) by inserting the stud bolt (Fig. 4.B) in the groove (Fig. 4.C) and push it towards the back of the machine body.
4. Tilt the machine to make it easier to wind the chain around the drive sprocket (Fig. 5).
5. Mount the chain (Fig. 6.A) around the drive sprocket (Fig. 6.B) and along the bar guide (Fig. 6.C) being careful to follow the sliding direction.



Direction in which the chain runs

6. If the tip of the bar is equipped with a nose sprocket, make sure the drive links are correctly inserted in the sprocket rims (Fig. 7).
7. Refit the guard (Fig. 8.A), without fully tightening the nut, making sure the chain brake lever is inserted correctly (Fig. 8.B) into its seat in the front hand guard.
8. Check that chain tension adjuster pin (Fig. 8.C) on the clutch cover is inserted correctly into the hole on the bar (Fig. 8.D); if this is not the case, use a screwdriver to adjust the screws on the belt tension adjuster until the pin is fully inserted.
9. Turn the chain tension adjuster screw (Fig. 9.A) to achieve the desired chain tension.
10. Raise the bar and tighten the guard nuts securely using the wrench supplied (Fig. 10).

4.2.1 Checking the chain tension

Check the chain tension.
The tension is correct when the drive links do not slip out of the chain guides if you hold the chain in the middle of the bar (Fig. 11).

5. CONTROLS

5.1 ENGINE START/STOP SWITCH

Used to start and stop the engine (Fig. 12.A).

The engine can start and run.

The engine stops.

After pressing the stop switch, the switch automatically returns to the start position "I"

5.2 CHOKE LEVER

Used to turn on the engine when cold. The choke control has two positions (Fig. 12.D):

Position A - the choke is not engaged (normal operations and warm start).

Position B - the choke is engaged (for a cold start).

5.3 PRIMER CONTROL BUTTON

Press the rubber button of the primer to inject fuel into the carburettor intake manifold to facilitate startup when the engine is cold (Fig. 13.E).

5.4 THROTTLE TRIGGER LEVER

Used to regulate the chain speed.

The throttle trigger lever (Fig. 12.B) can only be used if the interlock lever is pressed simultaneously (Fig. 12.C).

The correct running speed will be achieved by pressing the throttle trigger lever (Fig. 12.B) as far as possible.

5.5 INTERLOCK LEVER

The interlock lever (Fig. 12.C) allows the throttle trigger lever to be used (Fig. 12.B).

5.6 HANDLE FOR MANUAL START

Used for manual engine start-up (Fig. 13.F).

5.7 CHAIN BRAKE

This is a safety braking system that blocks the chain movement when kickback occurs during cutting.
Kickbacks occur following an irregular contact of the tip of the bar with a rapid upward movement of the bar that causes the hand to strike the front guard (Fig. 1.D).

It must be manually released to disengage the chain brake.

Chain brake disengaged. This is achieved when the front hand guard (Fig. 1.D) is pulled all the way back towards the front hand grip until it clicks into position.

Chain brake engaged. This is achieved when the front hand guard (Fig. 1.D) is pushed all the way forward.

⚠ ***Do not use the machine if the chain brake does not function correctly and have it inspected by your dealer.***

6. USING THE MACHINE

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

6.1 PRELIMINARY PROCEDURES

Before starting to work, it is necessary to carry out several checks and operations to ensure you can work efficiently and in maximum safety.

IMPORTANT *The machine is supplied with the fuel and chain lubrication oil tanks empty.*

6.1.1 Refuelling

Fill with fuel before using the machine. For preparing the mixture, refuelling methods and precautions (see paragraph 7.3).

6.1.2 Filling with chain lubrication oil

Fill with chain lubrication oil before using the machine. For oil filling methods and precautions (see paragraph 7.4).

6.1.3 Checking the chain tension

⚠ ***Perform all operations with the engine off.***

⚠ ***Always wear heavy duty work gloves.***

Check the chain tension.
The tension is correct when the drive links do not slip out of the chain guides if you hold the chain in the middle of the bar (Fig. 11).

To adjust the chain tension:
1. loosen the guard nut, using the supplied wrench;
2. turn the chain tension adjuster screw (Fig. 9.A) to achieve the desired chain tension;
3. raise the bar and tighten the guard nuts securely using the wrench supplied (Fig. 10).

⚠ ***Never work with the chain loose as it can be hazardous if the chain slips out of the bar guides.***

IMPORTANT *During the first period of use it must be checked more frequently due to settling of the chain.*

6.2 SAFETY CHECKS

Run the following safety checks and check that the results correspond to those outlined on the tables.

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

⚠ ***Always carry out a daily inspection of the machine before use, after a fall or other impact to detect any damage or significant defects.***

6.2.1 General check

Object	Result
Hand grips and guards (Fig. 1.B - 1.C -1.D)	Clean, dry, without traces of oil and grease, and fixed correctly and firmly to the machine.
Screws on the machine and bar	Correctly tightened (not loose)
Guide bar (Fig. 1.F)	Properly installed
Chain (Fig. 1.G)	Sharp, not damaged or worn, mounted and tensioned correctly.
Air filter (Fig. 37.C)	Clean
Spark plug cable	Undamaged to prevent sparks.
Spark plug cap (Fig. 31.A)	Undamaged and fitted correctly on the spark plug

6.2.2 Machine operating test

Action	Result
Start the machine (par. 6.4)	The chain (Fig. 1.G) must not move when the engine is running idle. ⚠ ***Do not use the machine if the chain moves when the engine is running idle; in this case, contact your dealer.***
Simultaneously activate the throttle trigger lever (Fig. 12.B) and interlock lever (Fig. 12.C).	The levers must move freely and not be forced. The chain moves.
Release the throttle trigger lever (Fig. 12.B) and interlock lever (Fig. 12.C)	The levers must return automatically and rapidly to the neutral position, the engine must return to running idle and the chain must be stationary.
Engage the throttle trigger lever (without pressing the safety lever) (Fig. 12.B)	The throttle trigger lever remains blocked.
Press the engine start/ stop switch (Fig. 12.A)	The switch must move easily from one position to another and must return automatically to the start position when released.
CHECKING THE CHAIN BRAKE 1. Start the machine (par. 6.4): 2. Grasp the hand grips firmly with both hands. 3. Use the throttle lever to keep the chain moving, push the front hand guard forwards using the back of your left hand; (par. 5.7).	3. The chain must stop moving immediately. When the chain has stopped immediately release the throttle trigger lever and disengage the chain brake (par. 5.7).

⚠ ***If any of the results fail to match the instructions provided in the following table, do not use the machine! Take it to an Authorised Service Centre to be checked and repaired if necessary.***

6.3 PREPARING TO USE THE CHAINSAW ON THE TREE

The chainsaw must be equipped with a flat strap with end slots suitable for attaching it to the operator's belt harness.

1. Fasten the flat strap with end loops to the fastening point (Fig. 14.A) on the rear of the chainsaw.
2. Provide suitable clasp clips to allow both indirect (via the flat strap with end slots) and direct (on the chainsaw fastening point) fastening of the chainsaw to the operator's belt harness.
3. Start the machine whilst still on the floor to warm up the engine (par. 6.4 / 6.4.1).
4. Switch off the chainsaw (par. 6.9).
5. Pass the machine to the operator situated on the tree.

⚠ ***Check that the chainsaw is connected securely when passed to the operator in the tree and check that it is fastened to the belt harness before releasing it from the equipment used to lift it.***

6. Fasten the chainsaw to the fastening point on the operator's harness (Fig. 16). The fastening points can be central points (front or rear) or side points:
– where possible, connect the chainsaw to the rear central point to prevent it from interfering with the climbing ropes and ensure that the weight is supported by the operator's back (Fig. 17).

NOTE *The possibility of fastening the chainsaw directly to the belt harness reduces the risk of damaging the equipment whilst moving around the tree.*

⚠ ***The chainsaw must always be switched off when it is directly fastened to the belt harness.***

IMPORTANT *When moving the chainsaw from one fastening point to another, make sure the machine is fastened to a new position before unfastening from the previous fastening point.*

6.4 START-UP

Before starting the machine:
1. Remove the protection bar cover (Fig. 1.K) and the spiked bumper guard (Fig. 1.J) (if used);
2. Make sure the bar and the chain are not touching the ground or any other object.
3. Make sure the chain brake is engaged (par. 5.7).

IMPORTANT *To avoid breaking the starter cable, do not pull the whole length of it or let it slide along the edge of the cable guide hole. Release the starter hand grip gradually, to prevent it flying back uncontrollably.*

IMPORTANT *Never wind the starter cable around your hand.*

⚠ ***Never start the chainsaw by holding on to the starter cable and allowing it to fall. This is an extremely dangerous method as you lose complete control over the machine and the chain.***

NOTE *The switch is always in the start position (par. 5.1).*

6.4.1 Startup from cold

⚠ ***A "cold" start of the engine means starting it after at least 5 minutes from when it was switched off or after refuelling.***

1. Make sure the chain brake is engaged (par. 5.7).
2. Engage the choke by moving the lever to position «B» (Fig. 12.D).
3. Press the primer device control button (Fig. 13.E) 6 times to help start the carburettor.
4. Position the machine firmly on the ground; hold it in place with your hand on the front hand grip and your right knee on the rear hand grip, to avoid losing control during starting (Fig. 15).

⚠ ***If the machine is not held firmly, the force of the engine could cause the user to lose his balance or direct the bar towards him or an obstacle.***

5. Pull the starter hand grip slowly for 10 - 15 cm until you feel some resistance, then pull it 4 times until you hear the engine start to tick over. Engine will not start at this stage.

IMPORTANT *Do not pull the starter hand grip more than 4 times.*

6. Disengage the choke (Fig. 12.D), moving the lever to position «A».
7. Pull the starter grip again until the engine starts as normal.
8. When the engine is started, simultaneously activate the throttle trigger lever (Fig. 12.B) and the interlock lever (Fig. 12.C) briefly to cancel fast tick over. Allow the engine to run idle for 10-15 minutes.
9. Disengage the chain brake (par. 5.7).

IMPORTANT *Do not let the engine run at high speed with the chain brake engaged, as this could cause overheating and damage to the clutch.*

10. Let the engine run idle for at least 1 minute before using the machine.

IMPORTANT *If the starter hand grip is pulled repeatedly with the choke engaged, it may flood the engine and make starting difficult. If the engine floods (see paragraph 15.5).*

6.4.2 Warm start

When hot starting (immediately after stopping the engine):
1. Make sure the chain brake is engaged (par. 5.7).

2. Press the primer device control button (Fig. 13.E) 6 times to help start the carburettor.
3. Engage the choke (position «B» - par. 5.2) and then immediately disengage again (position «A» - par. 5.2); this will engage the fast tick over.

4.a starting procedure for forestry works (par. 6.6):

– Follow points 4 - 7 - 8 - 9 in the previous procedure (par. 6.4.1)

4.b starting procedure for height trimming works (par. 6.7):

– keep on the right or left side of the body:
  1. when on the left, hold the chainsaw with the left hand on the front hand grip and distance the chainsaw from the body with the right hand on the starter hand grip;
  2. when on the right, hold the chainsaw with the right hand on one of the hand grips and distance the chainsaw from the body with the left hand on the starter hand grip.

– Follow points 7 - 8 - 9 in the previous procedure (par. 6.4.1)

⚠ ***The chain brake must always be engaged before the running chainsaw is lowered onto its flat strap with end slots.***

6.5 WORKING

Before felling or delimbing for the first time, make sure:
- you have been specifically trained to use this type of equipment;
- you have carefully read the safety regulations and user instructions contained in this manual;
- you practise first on logs on the ground or attached to trestles, in order to get familiar with the machine and the most suitable cutting techniques.

The operator should always check that the saw has sufficient fuel before undertaking critical/heavy cuts.

To operate with the machine proceed as described below:
- Always disengage the chain brake, before using the throttle.
- The machine must always be firmly held in both hands, with the left hand on the front hand grip and the right hand on the rear hand grip, even if the operator is left handed.

6.5.1 Checks to be conducted whilst working

6.5.1.a *Checking the chain tension*

The chain tends to stretch gradually as you work, so you need to check its tension frequently (par. 6.1.3).

6.5.1.b *Checking the oil delivery*

IMPORTANT *Never use the machine without lubrication! The oil tank may also be empty every time the fuel runs out. Make sure you top up the oil tank every time you refuel the machine (par. 7.4).*

⚠ ***Make sure the bar and the chain are in place when you check the oil delivery.***

Start the engine (par. 6.4), keep it running at medium power and check if the chain oil is delivered as shown in (Fig.18).

6.6 FORESTRY WORK

6.6.1 Delimbing a tree

⚠ ***Make sure there is nothing or anybody in the area where the branches will fall.***

⚠ ***For pruning high up using a rope and a belt harness, carefully follow the instructions under par. 6.7.***

1. Stand opposite the branch you want to cut.
2. Start cutting lower branches followed by the higher ones.
3. Cut downwards to prevent the bar from getting jammed (Fig. 19).

6.6.2 Felling a tree

IMPORTANT *Where two or more persons are working together on felling and bucking operations, such operations must be performed in separate areas at a distance from each other of at least 2.5 times the height of the tree being felled. Do not fell trees if this involves risks of injuring people, coming into contact with a power line or causing any form of damage. If the tree should come into contact with a main power line, report the incident immediately to the network provider.*

Before commencing the felling operations:
- it is necessary to evaluate the natural inclination of the tree, the part where the branches are larger and the wind direction, to assess how the tree will actually fall;
- remove any dirt, stones, pieces of bark, nails, metal staples and wire;
- clear the area around the tree and find a stable place to stand;
- plan obstacle-free escape routes at a 45° angle back and away from the direction of the fall (Fig. 20) which allow the operator to escape to a safe zone, approximately 2.5 times the height of the tree being felled;
- Stand uphill of the land onto which the tree will probably roll or fall over after felling.

• Performing a face notch

1. Stand to the right of the tree, behind the chainsaw.
2. Saw a horizontal face notch to 1/3 of the diameter of the tree, perpendicular to the direction in which it will fall (Fig. 21.A).

• Felling back cut

3. Perform the felling back cut at least 5 cm higher than the horizontal face notch (Fig. 21.B).
4. Perform the felling back cut leaving sufficient wood to act as a "hinge" (Fig. 21.C). The hinge wood will prevent the tree from twisting and falling in the wrong direction. Do not cut through the hinge.
5. Reduce the thickness of this hinge without pulling out the bar, until the tree falls.
6. If there is any risk of the tree not falling in the desired direction, or that it might lose its balance moving backwards and bending the toothed chain, stop cutting before completing the felling back cut and use some wooden, plastic or aluminium wedges (Fig. 21.D) to open the cut. Force the tree to fall along the desired line by hitting the wedges with a sledge hammer.
7. When the tree starts to fall, it is necessary to withdraw the machine from the cut, switch it off (par. 6.9), lie it on the ground and take the foreseen exit route. Beware of falling branches and pay attention where you put your feet.

6.6.3 Limbing tree branches

Limbing means removing the branches from a felled tree.

⚠ ***Be careful of where the branches are lying on the ground, the risk of them being under tension, the direction the branch may go during cutting and the risk of the tree being unstable after the branch has been cut.***

When limbing, it is necessary to leave the lower, larger branches to support the trunk on the ground. Remove the small branches with a single cut (Fig. 22.A).
It is recommended to cut the tensioned branches working from the bottom upwards to prevent the chainsaw from bending (Fig. 22.B).

6.6.4 Bucking the trunk

Bucking means sawing a tree trunk into logs.

It is essential to make sure your feet are positioned firmly on the ground, and your weight is distributed equally on both feet. If possible, it is recommended to raise and support the trunk using branches, logs or blocks of wood.

It is easier to saw a log using the spiked bumper (Fig. 1.I):

1. plant the spiked bumper into the log and use it as a pivot. Cut with an arched motion to make the bar penetrate the wood (Fig. 23);
2. repeat several times if necessary, changing the point where you plant the spiked bumper.

• Trunk lying on the ground

When the entire trunk is lying on the ground, it is bucked from the top down (overbucking) (Fig. 24.A).
- Cut up to half the diameter, roll the log over and finish sawing on the other side.

• Trunk resting on one end only

When the trunk is resting on one end only:
- saw through 1/3 of the diameter from the bottom up (underbucking) (Fig. 25.A);
- then perform the final cut, overbucking to reach the first cut (Fig. 25.B).

• Trunk resting on both ends

When the trunk is resting on both ends:
- saw through 1/3 of the diameter from the top down (overbucking) (Fig. 26.A);
- then perform the final cut, underbucking the lower 2/3 to reach the first cut (Fig. 26.B).

• Sloping trunk

Always stand uphill when bucking a sloping trunk (Fig. 27).

During the operation, to maintain control when the cut is almost complete, reduce the bucking pressure without removing your hands from the machine hand grips. Take all

necessary precautions to prevent the machine from coming into contact with the ground.

6.7 FOR PRUNING HIGH UP USING A ROPE AND A BELT HARNESS

IMPORTANT *This chapter describes the work procedures implemented to reduce the risk of injuries when using chainsaws for trimming and performing height work aided by a rope and belt harness. This is not intended to replace formal training on the subject. The guidelines provided in this appendix are only examples of best practice. National laws and regulations must always be observed.*

6.7.1 Using the chainsaw with two hands

Using the chainsaw with two hands allows you to:
- maintain a firm grip on the chainsaw in the event of a kickback;
- maintain a level of control over the chainsaw that decreases the probability of it coming into contact with the ropes and the operator's body;
- adopt a safe work position to avoid any loss of control that could lead to contact with the chainsaw (unintentional movement while the chainsaw is running).

In order to be able to grip the chainsaw with both hands, as a general rule, the operator must always try to maintain a safe position when using the chainsaw:
- at hip level when cutting horizontally or
- at a solar plexus level when cutting vertically.

- When the operator is working close to vertical trunks, with reduced lateral force on the working position, stable support is sufficient to maintain a safe working position.
- When the operator moves away from the trunk, the lateral forces increase and it is necessary to eliminate or offset them using one of the following methods:
  - add an additional fastening point for the main rope to stabilise it;
  - use a flat strap with end slots adjustable from the harness fastened to an additional fastening point (Fig. 28);
- Use of a temporary foot stirrup, created by a ring belt, can make it easier to achieve a stable working position (Fig. 29).

6.7.2 Using the chainsaw with one hand

⚠ ***Do not work with one hand if you are in an unstable working position or when using a chainsaw instead of a handsaw to cut small sized branches.***

The chainsaw must be used with one hand only when:
- the operator is not able to reach a working position that allows him to use both hands,
- the operator needs to use one hand to support himself in the working position,
- the cutting involves extension of the operator's upper limb beyond his own body line (Fig. 30).

The operator must never:
- perform cutting operations with the kickback area corresponding with the point of the chainsaw bar;
- “hold and cut” sections;
- attempt to catch falling sections.

6.8 ADVICE FOR OPERATION

NOTE *Avoid using the machine at full power for the first 6- 8 working hours.*

IMPORTANT *Stop the machine (par. 6.6) when moving between work areas*.

⚠ ***Stop the machine immediately if the chain stops during sawing.***

If the chainsaw should get stuck during pruning high up (using a rope and a belt harness), the operator must:
1. stop the machine immediately;
2. fasten it securely to the part of the branch between the trunk and the cut section or to a rope not attached to the tool;
3. pull the chainsaw out from the cut, lifting the branch where necessary;
4. if necessary, use a handsaw or second chainsaw to free the trapped chainsaw, cutting at a minimum distance of 30 cm from the trapped chainsaw. Cutting operations to free the chainsaw must always be performed towards the end of the branch, (i.e. between the trapped chainsaw and the end of the branch and not between the trunk and the trapped chainsaw). This will prevent the chainsaw from being dragged by the part of the branch that is cut away, which would complicate the situation even further.

6.9 STOP

To stop the machine:
1. Release the throttle trigger lever (Fig. 12.B) and allow the engine to run at minimum speed for a few seconds.
2. Turn the switch (Fig. 12.A) to the «O» position.
3. Wait until the chain is stationary.

⚠ ***When you have reduced speed to a minimum, it will take a few seconds for the chain to stop.***

⚠ ***The engine may be very warm immediately after it is shut off. Do not touch. The engine can cause burn injuries.***

6.10 AFTER OPERATION

- Remove the spark plug cap (Fig. 31.A).
- Mount the bar cover.
- Allow the machine to cool down.
- Loosen the guide bar fastening nut to reduce chain tension.
- Carefully remove any dust and debris and remove all traces of sawdust or oil deposits from the chain. (par. 7.5, par. 7.6).
- Check there are no loose or damaged components. If necessary, replace the damaged components and tighten any screws and loose bolts.

IMPORTANT *Stop the machine (par. 6.9) remove the spark plug cap (Fig. 31.A) and mount the bar cover whenever the machine is unused or left unattended.*

7. ROUTINE MAINTENANCE

7.1 GENERAL INFORMATION

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

⚠ ***Before conducting any inspections, cleaning or maintenance/adjustment interventions on the machine:***
- ***Stop the machine;***
- ***Wait until the chain is stationary;***
- ***Apply the bar cover, except when working directly on the chain or bar itself.***
- ***Remove the spark plug cap (Fig. 31.A);***
- ***Wait until the engine is sufficiently cold;***
- ***Read the relevant instructions;***
- ***Use suitable clothing, protective gloves and goggles;***

- The frequency and types of maintenance are summarised in the "Maintenance Table" (see chapter 13). 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 task as soon as it is scheduled to be performed.
- The use of non-genuine spare parts and attachments could adversely affect machine operation and safety. The manufacturer declines all liability for any damage or injuries caused by these products.
- Genuine spare parts are supplied by Authorised Service Centres and dealers.
- Never use the machine with worn or damaged parts. Damaged parts are to be replaced and never repaired.

IMPORTANT *Any maintenance and adjustment operations not described in this manual must be carried out by your dealer or Authorised Service Centre.*

7.2 PREPARING THE FUEL MIXTURE

This machine has a two-stroke engine which requires a mixture of petrol and lubricating oil.

IMPORTANT *Using petrol alone will damage the engine and will void the warranty.*

IMPORTANT *Only use quality fuels and oils to maintain high performance and guarantee the duration of the mechanical parts over time.*

7.2.1 Petrol characteristics

Only use unleaded petrol with an octane rating of at least 90.

IMPORTANT *Unleaded petrol tends to create deposits in the container if stored for more than 2 months. Always use fresh petrol!*

7.2.2 Oil characteristics

Only use top quality synthetic oil that is specifically for two-stroke engines, with minimum JASO FC specifications.
Your Dealer can provide you with oils which have been specifically developed for this

type of engine, and which are capable of guaranteeing a high level of protection. The use of these oils makes it possible to prepare a 2% mixture, consisting of 1 part oil to 50 parts petrol.

7.2.3 Preparation and storage of the fuel mixture

The chart indicates the amount of petrol and oil to use to prepare the fuel mixture.

Petrol	2-stroke synthetic oil
litres	litres
1	0.025
2	0.050
3	0.075
5	0.125
10	0.250

To prepare the fuel mixture:
1. Place about half the amount of petrol in a homologated tank.
2. Add all the oil.
3. Add the rest of the petrol.
4. Close the top and shake well.

IMPORTANT *The fuel mixture tends to age. Do not prepare excessive amounts of the fuel mixture to avoid the formation of deposits.*

IMPORTANT *Keep the petrol and fuel mixture containers separate and easily identifiable to avoid the mistake of using one in place of the other.*

IMPORTANT *Periodically clean the petrol and fuel mixture containers to remove any deposits.*

7.3 REFUELLING

⚠ ***Refuelling must take place when the machine is switched off and the spark plug cap removed.***

Before refuelling:
1. Shake the fuel mixture container well.
2. Place the machine on a flat stable surface, with the fuel tank cap facing upwards.

NOTE *Near the fuel mixture tank cap (Fig. 32.A) you will find the following symbol:*


Fuel mixture tank

3. Clean the fuel tank cap and the surrounding area to prevent any dirt from entering the tank during refuelling.
4. Open the fuel tank cap carefully to allow the pressure inside to decrease gradually.
5. Use a funnel to refill and avoid filling the tank to the brim.

7.4 TOPPING UP THE CHAIN OIL TANK

NOTE *Near the chain oil tank cap (Fig. 32.B) you will find the following symbol:*


Chain oil tank

IMPORTANT *Only use chainsaw oil or adhesive oil for chainsaws. Do not use oil containing impurities so as not to block the oil filter and to prevent irreparable damage to the oil pump.*

It is essential that you use good quality oil to lubricate the cutting parts effectively. Used or poor quality oil does not guarantee good lubrication and reduces the working life of the chain and bar.

– It is always worth topping up the oil tank completely (using a funnel) every time you refuel. Since the oil tank capacity is enough to guarantee that the fuel runs out first, you will avoid the risk of operating the machine without lubricant.

7.5 CLEANING THE MACHINE AND THE ENGINE

After every work session, clean the machine thoroughly to remove all dust and debris.
- To reduce fire hazards:
  – keep the machine and, in particular, the engine and muffler zone free of sawdust, branches, leaves, or excessive grease;
  – use compressed air to clean the cylinder fins on a regular basis.
- To avoid overheating and damage to the engine:

– the cooling air circulation vents (Fig. 33) must always be kept clean and free of sawdust and debris.

- Keep the clutch bell free of sawdust and debris (Fig. 34) removing the clutch cover (par. 4.3) and replacing it correctly on completing the operation.
  Have your dealer check the greasing of the internal bearing approximately every 30 hours.

7.6 CLEANING THE CHAIN

Remove any traces of sawdust or oil deposits from the chain every time it is used.

If there is excessive dirt or resin build-up, disassemble the chain and place it in a container with a specific cleanser for a few hours. Then rinse it with clean water and treat it with a suitable anticorrosive spray, before reassembling on the machine.

7.7 CHAIN CATCHER

Check the chain stop pin conditions before each use (Fig. 1.l) and repair in the event of damages.

7.8 MACHINE AND BAR LUBRICATION HOLES

Before daily use, remove the clutch casing (par. 4.3), remove the bar and check that machine lubrication holes (Fig. 35.A) and guide bar (Fig. 35.B) are not clogged.

7.9 NUTS AND BOLTS

- Before use, always check that all nuts and bolts are securely tightened to be sure the machine is in safe working condition.
- Before use, always check that the hand grips are firmly fastened in place.

8. EXTRAORDINARY MAINTENANCE

8.1 CLEANING THE AIR FILTER

IMPORTANT *Cleaning the air filter is essential to guarantee the efficiency and durability of the machine. Do not work with a damaged filter or without a filter, as this could permanently damage the engine.*

It must be cleaned after every 8-10 working hours.

Clean the filter as follows:

1. Unscrew the knob (Fig. 36.A);
2. Remove the cover (Fig. 37.B) and the air filter (Fig. 37.C).
3. Gently tap the filter element (Fig. 37.C) to remove the dirt and, if necessary, clean it with low pressure compressed air.

IMPORTANT *The filtering element (Fig. 38.C) must never be washed and must be replaced if it is too dirty or damaged.*

4. Remount the air filter (Fig. 37.C) and the cover (Fig. 37.B).
5. Screw the knob back on (Fig. 36.A).

8.2 CHAIN BRAKE METAL BAND

Have your dealer check the condition of the metal band (Fig. 38.A) around the clutch housing once a month. The band must be replaced if deteriorated or deformed.

8.3 CHAIN DRIVE SPROCKET

Regularly check the condition of the sprocket with your local dealer or Authorised Service Centre and replace it when wear exceeds the accepted limits.

⚠ ***Do not mount a new chain with a worn sprocket or vice-versa.***

8.4 CHECKING THE SPARK PLUG

The spark plug (Fig. 39.A) can be accessed by removing the air filter cover (Fig. 39.B).

Periodically remove and clean the spark plug using a metal brush to get rid of any deposits (Fig. 40.A).
Check and reset the correct distance between the electrodes (Fig. 40.B).
Replace the spark plug and fasten it firmly using the supplied wrench.
The spark plug must be replaced with one with the same characteristics whenever the electrodes have burnt or the insulation has worn, and in any case every 100 working hours.

8.5 STARTER CABLE

The starter rope must be replaced by your dealer or Authorised Service Centre as soon as it shows signs of wear.

8.6 MAINTENANCE OF THE TOOTHED CHAIN

⚠ ***To ensure that the chainsaw works safely and efficiently, it is essential that the cutting means are well-sharpened.***

Chain sharpening is necessary when:
- the sawdust looks like dust.
- cutting becomes more difficult.
- the cut is not straight.
- vibrations increase.
- fuel consumption increases.

⚠ ***Kickback may occur if the chain is not sufficiently sharpened***

IMPORTANT *It is recommended to have a specialised centre sharpen the chain using the right tools to ensure minimum removal of material and even sharpness on all the cutting edges.*

8.6.1 Chain sharpening

If you sharpen the chain yourself, use special round-section files with the right diameter depending on the type of chain (see "Chain Maintenance Table", chap. 14). You need a certain amount of skill and experience to avoid damaging the cutting edges.

Sharpen the chain as follows:
1. Stop the machine (par. 6.9).
2. Disengage the chain brake (par. 5.7).
3. Secure the bar firmly, with the chain mounted, in a suitable vice (Fig. 41.A), making sure that the chain can run freely.
4. Tighten the chain if it is loose (par. 6.1.3).
5. Insert the file in the tooth at a constant angle from the cutting edge (Fig. 41.B). Using a sharpening plate makes using the file easier (Fig. 41.C).
6. Sharpen in a forward motion a few times and repeat this on all the cutting edges facing the same way (right or left).
7. Turn the bar over in the vice and repeat on all the other cutting edges.
8. Check that the limiter tooth (Fig. 41.D) complies with the levels indicated in the "Chain Maintenance Table" (Chap. 14) and file any projecting parts with a flat file, rounding off the edge.
9. After sharpening, remove all traces of filing and dust and lubricate the chain in an oil bath.

8.6.2 Replacing the toothed chain

Replace the chain whenever:
- the length of the cutting edges reduces to 5 mm or less (Fig. 41.E);
- there is too much play between the links and the rivets.
- the cutting speed is too slow and the repeated sharpening does not improve the cutting speed. The chain is worn.

IMPORTANT *After replacing the chain, its tension level must be checked more frequently due to settling of the chain.*

8.7 GUIDE BAR MAINTENANCE

NOTE *Any work on the guide bar requires specific experience and special tools in order to achieve top workmanship standards; for safety purposes, we recommend you contact your dealer to ensure work is done correctly.*

To avoid asymmetrical wear on the bar, make sure it is turned over periodically.

To keep the bar in perfect working order, proceed as follows:
1. Grease the bearings on the nose sprocket (if present) with the syringe (not included).
2. Clean the bar groove with the scraper (not included) (Fig. 42.A);
3. Clean the lubrication holes (Fig. 42.B);
4. With a flat file (not included), remove burr from the edges and level off the guides.

8.7.1 Replacing the bar

Replace the bar whenever:
- the groove is not as deep as the height of the drive links (which must never touch the bottom);
- the inside of the guide is worn enough to make the chain lean to one side.

8.8 TUNING MINIMUM SPEED

⚠ ***If the cutting means moves when the engine is running idle, contact your dealer or Authorised Service Centre to have the engine adjusted correctly (par. 8.9).***

8.9 TUNING THE CARBURETTOR

The carburettor is tuned by the manufacturer to achieve maximum performance in all situations, with a minimum emission of toxic gas in compliance with the regulations in force.

In the event of poor performance, contact your Dealer or Authorised Service Centre for a check of the carburetion and engine.

Carburettor tuning:

T = minimum speed tuning
L = low speed mixture tuning
H = high speed mixture tuning

9. STORING

IMPORTANT *The safety regulations to follow for putting into storage are described in paragraph 2.4. Strictly comply with these instructions to avoid serious risks or dangers.*

If you are not going to use the machine for a period of more than 2-3 months, we recommend you do a few things before putting it away. This will make it easier when you want to use the machine again and will also prevent permanent damage to the engine.

Before putting the machine away:

1. Unscrew the clutch housing nut, remove the housing and remove the chain and bar.
2. Empty the oil tank, fill with about 100-120 cc of specific liquid detergent and plug the cap.
3. Refit the guard (Fig. 8.A), without fully tightening the nut, making sure the chain brake lever (Fig. 8.B) is inserted correctly into its seat in the front hand guard (pulled completely backward).
4. Start the engine and keep it running until all detergent is used.
5. Start the engine and run it idle until it uses up all the fuel that is left in the tank and the carburettor.
6. Wait for the engine to cool.
7. Remove the spark plug.
8. Pour a teaspoon of (new) 2-stroke engine oil into the spark plug slot.
9. Pull the starter hand grip several times to deliver oil to the cylinder.
10. Replace the spark plug with the piston in the dead end upper position (visible from the spark plug slot when the piston is at maximum stroke).
11. Clean the machine thoroughly.
12. Check the machine for any damage. If necessary, contact the authorised service centre.
13. Store the machine:
    - in a dry place
    - protected from inclement weather
    - with the bar cover guard fitted correctly
    - in a place where children cannot get to it
    - making sure that keys or tools used for maintenance are removed.

Before starting to use the machine again:
1. Remove the spark plug.
2. Pull the starter hand grip a few times to eliminate excess oil.
3. Check the spark plug (par. 8.4).
4. Prepare the machine (chap. 4 chap. 6).

10. HANDLING AND TRANSPORTATION

When handling or transporting the machine, always:
- stop the machine (par. 6.9).
- wait until the chain is stationary.
- remove the spark plug cap (Fig. 31.A)
- mount the bar cover.
- only hold the machine using the hand grips and position the bar in the opposite direction to that used during operation.

When transporting the machine on a vehicle, always:
- position it so that it does not cause a hazard to anyone
- fasten firmly to the means of transport using ropes or chains to prevent it from tipping over causing damage and fuel leaks.

11. 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 Authorised 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 unauthorised centres or by unqualified persons will totally invalidate the Warranty and all obligations and responsibilities of the Manufacturer.

- Only Authorised Service Centres or dealers can carry out guaranteed repairs and maintenance.
- The Authorised Service Centres or dealers only use genuine spare parts. Genuine spare parts and attachments have been designed specifically for machines.

- Non-genuine spare parts and attachments are not approved. Use of non-genuine spare parts and attachments cause the warranty to be invalidated.
- It is advisable to send your machine once a year to an Authorised Service Centre for servicing, assistance and safety device inspection.

12. 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 attachments not supplied or approved by the manufacturer.

The warranty does not cover:

- Normal wear and tear of consumables, such as cutting means, safety bolts.
- Normal wear and tear.

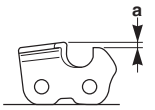
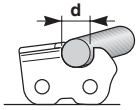
The purchaser is protected by his or her own national legislation. The purchaser's rights under the national laws or his or her own country are not in any way restricted by this warranty.

13. MAINTENANCE TABLE

Intervention	Frequency		Paragraph
	First time	And then after every	
MACHINE			
Check all fasteners	-	Before each use	7.9
Safety checks/check controls	-	Before each use	6.2
Check the chain catcher	-	Before each use	7.7
Check the machine and bar lubrication holes	-	Before each daily use	7.8
General cleaning and inspection	-	After each use	7.5
Cleaning the chain	-	After each use	7.6
Clutch housing bearing greasing	-	30 hours	7.5 *
Check the chain brake metal band	-	Once a month	8.2 *
Check the chain drive sprocket	-	Once a month	8.3 *
Chain maintenance	-	-	8.6, 14
Bar maintenance	-	-	8.7
ENGINE			
Checking/topping up fuel level	-	Before each use	7.3.
Topping up the chain oil level	-	Whenever refuelling	7.4.
General cleaning and inspection	-	After each use	7.5
Cleaning the air filter		8-10 hours / every season	8.1
Cleaning the spark plug	-	10 hours / every season	8.4
Replace spark plug	-	100 hours / every season	8.4

* The operation must be carried out by your Dealer or an Authorised Service Centre

14. CHAIN MAINTENANCE TABLE

Chain pitch		Limiter tooth level (a)		File diameter (d)	
					
inches	mm	inches	mm	inches	mm
3/8	9.6	0.025	0.64	5/32	4.0
1/4	6.4	0.025	0.64	5/32	4.0

⚠ ***This table gives the sharpening data for different types of chains, but this does not mean you can use chains other than those approved and listed in the "Correct bar and chain combination table".***

15. PROBLEM IDENTIFICATION

PROBLEM	PROBABLE CAUSE	REMEDY
1. The engine will not start or will not keep running	Incorrect starting procedure.	Follow the instructions (par. 6.4)
	Dirty spark plug or incorrect distance between the electrodes	Check the spark plug (par. 8.4).
	Air filter clogged	Clean and/or replace the filter (par. 8.1).
	Carburetion problems	Contact the Authorised Service Centre or dealer.
2. The engine starts but lacks power.	Air filter clogged	Clean and/or replace the filter (par. 8.1).
	Carburetion problems	Contact the Authorised Service Centre or dealer.
3. The engine runs irregularly and lacks power when revved	Dirty spark plug or incorrect distance between the electrodes	Check the spark plug (par. 8.4).
	Bar and chain problems	Check that the chain runs freely and the bar guides are not deformed.
	Carburetion problems	Contact the Authorised Service Centre or dealer.
4. The engine makes too much smoke	Incorrect composition of the fuel mixture	Prepare the fuel mixture according to the instructions (par. 7.2)
	Carburetion problems	Contact the Authorised Service Centre or dealer.
5. If the engine floods	The starter grip has been driven repeatedly with the choke engaged.	Remove the spark plug (par. 8.4) and gently pull the starter rope hand grip (Fig. 13.F) to eliminate any excess fuel; then dry the spark plug electrodes and remount it on the engine.
6. No oil is released	Poor quality oil	When the engine is cold, empty the tank, clean it and the pipes with liquid detergent and change the oil.
	Lubrication holes are clogged	Clean them (chap. 7.8)
7. The chain moves when the engine is running idle	Incorrect adjustment of fuelling	Contact the Authorised Service Centre or dealer.

PROBLEM	PROBABLE CAUSE	REMEDY
8. The machine starts to vibrate abnormally	Damaged or loose parts.	Stop the machine and disconnect the spark plug cable (Fig. 31.A). Inspect for damage. Check and tighten any loose parts. Have all checks, repair work and replacements carried out by an Autorised Service Centre or dealer only.
9. The machine has struck a foreign body.	Damaged or loose parts.	Stop the machine and disconnect the spark plug cable (Fig. 31.A). Inspect for damage. Check and tighten any loose parts. Have all checks, repair work and replacements carried out by an Autorised Service Centre or dealer only.

If problems persist after having performed the above operations, contact your Authorised Service Centre.

16. ATTACHMENTS

The "Correct bar and chain combination table" contains a list of all possible combinations between bar and chain, indicating those which may be used on each machine, marked with the symbol "✓". The same table also provides the specification data for all chains and bars approved for use on each machine.

⚠ ***Only use the replacement bars and chains listed in the table. The use of unapproved combinations may be hazardous and cause serious injuries to operators and damage the machine.***

⚠ ***In consideration that the selection, application and use of the bar and chain are actions made solely by the user, at his own discretion, the latter assumes responsibility for damages of any kind arising from such actions. When in doubt or if lacking knowledge of the specifics of each bar or chain, contact your dealer or an Autorised Service Centre.***

DICHIARAZIONE CE DI CONFORMITÁ

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

1. **La Società**: ST. SpA – Via del Lavoro, 6 – 31033 Castelfranco Veneto (TV) – Italy

2. Dichiara sotto la propria responsabilità, che la macchina: Motosega a catena per lavori forestali abbattimento / sezionamento / sramatura di alberi

   a) Tipo / Modello Base — SPR 276, SPR 276 C

   b) Mese/Anno di costruzione

   c) Matricola

   d) Motore — a scoppio

3. É conforme alle specifiche delle direttive:

   - MD: 2006/42/EC
     e) Ente Certificatore — N°0905 – Intertek Deutschland GmbH, Stangenstrasse 1, 70771 Leinfelden-Echterdingen - Germany

     f) Esame CE del tipo: — No. 17SHW0740-01

   - OND: 2000/14/EC, ANNEX V
     D. Lgs. 262/2002, ANNEX V (Italy)
   - EMCD: 2014/30/EU

4. Riferimento alle Norme armonizzate:

   EN ISO 11681-2:2011 — EN ISO 14982:2009

g) Livello di potenza sonora misurato	108,1	dB(A)
h) Livello di potenza sonora garantito	111	dB(A)
j) Potenza netta installata	0,7	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

FR (Traduction de la notice originale)

Déclaration CE de Conformité
(Directive Machines 2006/42/CE, Annexe II, partie A)
1. La Société
2. Déclare sous sa propre responsabilité que la machine : Scie à chaîne pour travaux forestiers abattage/tronçonnage/ébranchage d'arbres
a) Type / Modèle de Base
b) Mois / Année de construction
c) Série
d) Moteur: moteur essence
3. Est conforme aux prescriptions des directives :
e) Organisme de certification
f) Examen CE du Type
4. Renvoi aux Normes harmonisées
g) Niveau de puissance sonore mesuré
h) Niveau de puissance sonore garanti
j) Puissance nette installée
m) Personne habilitée à établir le Dossier Technique :
n) Lieu et Date

EN (Translation of the original instruction)

EC Declaration of Conformity
(Machine Directive 2006/42/EC, Annex II, part A)
1. The Company
2. Herby declares under its own responsibility that the machine: Chainsaw for forest service felling, bucking, delimbing trees
a) Type / Base Model
b) Month / Year of manufacture
c) Serial number
d) Engine: petrol
3. Conforms to directive specifications:
e) Certifying body
f) EC examination of Type
4. Reference to harmonised Standards
g) Sound power level measured
h) Sound power level guaranteed
j) Net power installed
m) Person authorised to create the Technical Folder:
n) Place and Date

DE (Übersetzung der Originalbetriebsanleitung)

EG-Konformitätserklärung
(Maschinenrichtlinie 2006/42/EG, Anhang II, Teil A)
1. Die Gesellschaft
2. Erklärt auf eigene Verantwortung, dass die Maschine: Kettensäge für die Forstarbeit fällen/schneiden/entasten von Bäumen
a) Typ / Basismodell
b) Monat / Baujahr
c) Seriennummer
d) Motor: Verbrennungsmotor
3. Den Anforderungen der folgenden Richtlinien entspricht:
e) Zertifizierungsstelle
f) EG-Baumusterprüfung
4. Bezugnahme auf die harmonisierten Normen
g) Gemessener Schallleistungspegel
h) Garantierter Schallleistungspegel
j) Installierte Nettoleistung
m) Zur Verfassung der technischen Unterlagen befugte Person:
n) Ort und Datum

NL (Vertaling van de oorspronkelijke gebruiksaanwijzing)

EG-verklaring van overeenstemming
(Richtlijn Machines 2006/42/CE, Bijlage II, deel A)
1. Het bedrijf
2. Verklaart onder zijn eigen verantwoordelijkheid dat de machine: Kettingzaag voor boswerken vellen/snijden/snoeien van bomen
a) Type / Basismodel
b) Maand / Bouwjaar
c) Serienummer
d) Motor: accu
3. Voldoet aan de specificaties van de richtlijnen:
e) Certificatie-instituut
f) EG-onderzoek van het Type
4. Verwijzing naar de Geharmoniseerde normen
g) Gemeten niveau van geluidsvermogen
h) Gegarandeerd niveau van geluidsvermogen
j) Netto geïnstalleerd vermogen
m) Bevoegd persoon voor het opstellen van het Technisch Dossier
n) Plaats en Datum

ES (Traducción del Manual Original)

Declaración de Conformidad CE
(Directiva Máquinas 2006/42/CE, Anexo II, parte A)
1. La Empresa
2. Declara bajo su propia responsabilidad que la máquina: Motosierra de cadena para trabajos forestales tala/seccionamiento/poda de árboles
a) Tipo / Modelo Base
b) Mes / Año de fabricación
c) Matrícula
d) Motor: motor de explosión
3. Cumple con las especificaciones de las directivas:
e) Ente certificador
f) Examen CE del Tipo
4. Referencia a las Normas armonizadas
g) Nivel de potencia sonora medido
h) Nivel de potencia sonora garantizado
j) Potencia neta instalada
m) Persona autorizada a realizar el Manual Técnico:
n) Lugar y Fecha

PT (Tradução do manual original)

Declaração CE de Conformidade
(Diretiva de Máquinas 2006/42/CE, Anexo II, parte A)
1. A Empresa
2. Declara so Motosserra para trabalhos florestais abate/secionamento/desramação
b a própria responsabilidade que a máquina:
a) Tipo / Modelo Base
b) Mês / Ano de fabrico
c) Matrícula
d) Motor: motor a explosão
3. É conforme às especificações das diretivas:
e) Órgão certificador
f) Exame CE do Tipo
4. Referência às Normas harmonizadas
g) Nível medido de potência sonora
h) Nível garantido de potência sonora
j) Potência líquida instalada
m) Pessoa autorizada a elaborar o Caderno Técnico
n) Local e Data

EL (Μετάφραση του πρωτοτύπου των οδηγιών χρήσης)

ΕΚ-Δήλωση συμμόρφωσης
(Οδηγία Μηχανών 2006/42/CE, Παράρτημα II, μέρος A)
1. Η Εταιρία
2. Δηλώνει υπεύθυνα ότι η μηχανή: Αλυσοπρίονο για δασικές εργασίες Κατάρριψη/κατατομή/κοπή κλαδιών δέντρων
a) Τύπος / Βασικό Μοντέλο
b) Μήνας / Έτος κατασκευής
c) Αριθμός μητρώου
d) Κινητήρας: κινητήρας εσωτερικής ανάφλεξης
3. Συμμορφώνεται με τις προδιαγραφές της οδηγίας:
e) Οργανισμός πιστοποίησης
f) Εξέταση CE του Τύπου
4. Αναφορά στους Κανονισμούς εναρμόνισης
g) Στάθμη μέτρησης ακουστικής ισχύος
h) Στάθμη εγγυημένης ακουστικής ισχύος
j) Καθαρή εγκαταστημένη ισχύς
m) Εξουσιοδοτημένο άτομο για την κατάρτιση του Τεχνικού Φυλλαδίου:
n) Τόπος και Χρόνος

TR (Orijinal Talimatların Tercümesi)

AT Uygunluk Beyanı
(2006/42/CE Makine Direktifi, Ek II, bölüm A)
1. Şirket
2. Şahsi sorumluluğu altında aşağıdaki makinenin: Orman işleri için zincirli testere Ağaçların kesilip devrilmesi/parçalara bölünmesi/dallarının budanması
a) Tip / Standart model
b) Üretimin Ay / yıl
c) Sicil numarası
d) Motor: patlamalı motor
3. Aşağıdaki direktiflerin özelliklerine uygun olduğunu beyan etmektedir:
e) Sertifikalandıran kurum
f) ... Tipi CE incelemesi
4. Harmonize standartlara atıf
g) Ölçülen ses güç seviyesi
h) Garanti edilen ses güç seviyesi
j) Kurulu net güç
m) Teknik Dosyayı oluşturmaya yetkili kişi:
n) Yer ve Tarih

MK (Превод на оригиналните упатства)

Декларација за усогласеност со ЕУ
(Директива за машини 2006/42/CE, Анекс II, дел A)
1. Компанијата
2. изјавува со целосна лична одговорност дека следната машина: Моторна пила со синџир за работа во шума Соборување/сечење/кастрење на дрва
а) Тип / основен модел
б) Месец / Година на производство
в) етикета
г) мотор: мотор со согорување
3. Усогласено со спецификациите според директивите:
д) тело за сертификација
ѓ) тест CE за типот
4. Референци за усогласени нормативи
е) Акустички притисок
ж) измерено ниво на звучна моќност
з) Ниво на гарантирана звучна моќност
и) вибрации на рацете
љ) овластено лице за составување на Техничката брошура
н) место и датум

NO (Oversettelse av orginal bruksanvisning)

EF- Samsvarserklæring
(Maskindirektiv 2006/42/EF, Vedlegg II, del A)
1. Firmaet
2. Erklærer på eget ansvar at maskinen: Kjedesag for vanlig skogbruk Nedfelling/kutt/kvisting av trær
a) Type / Modell
b) Måned / Byggeår
c) Serienummer
d) Motor: forbrenningsmotor
3. Oppfyller kravene i direktivene:
e) Sertifiseringsorgan
f) EF-typeprøving
4. Henvisning til harmoniserte standarder
g) Målt lydeffektnivå
h) Garantert lydeffektnivå
j) Installert nettoeffekt
m) Person som har fullmakt til å utferdige teknisk dokumentasjon:
n) Sted og dato

SV (Översättning av bruksanvisning i original)

EG-försäkran om överensstämmelse
(Maskindirektiv 2006/42//EG, bilaga II, de la)
1. Företaget
2. Försäkrar på eget ansvar att maskinen : Kedjesåg för skogsarbete Fällning/kapning/grenklippning av träd
a) Typ / Basmodell
b) Månad / Tillverkningsår
c) Serienummer
d) Motor: förbränningsmotor
3. Överensstämmer med föreskrifterna i direktivet
e) Intygsorgan_ Anmält organ
f) EG typgodkännande
4. Referens till harmoniserade standarder
g) Uppmätt ljudeffektnivå
h) Garanterad ljudeffektnivå
j) Installerad nettoeffekt
m) Auktoriserad person för upprättandet av den tekniska dokumentationen:
n) Ort och datum

DA (Oversættelse af den originale brugsanvisning)

EF-overensstemmelseserklæring
(Maskindirektiv 2006/42/EF, bilag II, del A)
1. Firmaet
2. Erklærer på eget ansvar, at maskinen: Kædesav til skovarbejde Fældning af træer/udskæring af stykker/opskæring af grene
a) Type / Model
b) Måned / Konstruktionsår
c) Serienummer
d) Motor: forbrændingsmotor
3. Er i overensstemmelse med specifikationerne ifølge direktiverne:
e) Certificeringsorgan
f) EF-typeafprøvning
4. Henvisning til harmoniserede standarder
g) Målt lydeffektniveau
h) Garanteret lydeffektniveau
j) Installeret nettoeffekt
m) Person, der har bemyndigelse til at udarbejde det tekniske dossier:
n) Sted og dato

FI (Alkuperäisten ohjeiden käännös)

EY-VAATIMUSTENMUKAISUUSVAKUUTUS
(Konedirektiivi 2006/42/EY, Liite II, osa A)
1. Yritys
2. Vakuuttaa omalla vastuullaan, että kone: Moottorisaha metsänhoitoon Puiden kaataminen/pilkkominen/karsinta
a) Tyyppi / Perusmalli
b) Kuukausi /Valmistusvuosi
c) Sarjanumero
d) Moottori : räjähdysmoottori
3. On yhdenmukainen seuraavien direktiivien asettamien vaatimusten kanssa:
e) Sertifiointiyritys
f) EY-tyyppitarkastus
4. Viittaus harmonisoituihin standardeihin
g) Mitattu äänitehotaso
h) Taattu äänitehotaso
j) Asennettu nettoteho
m) Teknisten asiakirjojen laatimiseen valtuutettu henkilö:
n) Paikka ja päivämäärä

CS (Překlad původního návodu k používání)

ES – Prohlášení o shodě
(Směrnice o Strojních zařízeních 2006/42/ES, Příloha II, část A)
1. Společnost
2. Prohlašuje na vlastní odpovědnost, že stroj: Řetězová motorová pila pro lesnické práce Kácení/rozřezávání/odvětvování stromů
a) Typ / Základní model
b) Měsíc / Rok výroby
c) Výrobní číslo
d) Motor: spalovací motor
3. Je ve shodě s nařízeními směrnic:
e) Certifikační orgán
f) ES zkouška Typu
4. Odkazy na Harmonizované normy
g) Naměřená úroveň akustického výkonu
h) Zaručená úroveň akustického výkonu
j) Čistý instalovaný výkon
m) Osoba autorizovaná pro vytvoření Technického spisu:
n) Místo a Datum

PL (Tłumaczenie instrukcji oryginalnej)

Deklaracja zgodności WE
(Dyrektywa maszynowa 2006/42/WE, Załącznik II, część A)
1. Spółka
2. Oświadcza na własną odpowiedzialność, że maszyna: Pilarka łańcuchowa do prac leśnych Ścinanie, obalanie/przerzynanie/okrzesywanie drzew
a) Typ / Model podstawowy
b) Miesiąc / Rok produkcji
c) Numer seryjny
d) Silnik: silnik o zapłonie iskrowym
3. Spełnia podstawowe wymogi następujących Dyrektyw:
e) Jednostka certyfikująca
f) Badanie typu WE
4. Odniesienie do Norm zharmonizowanych
g) Zmierzony poziom mocy akustycznej
h) Gwarantowany poziom mocy akustycznej
j) Moc zainstalowana netto
m) Osoba upoważniona do zredagowania Dokumentacji technicznej:
n) Miejscowość i data

HU (Eredeti használati utasítás fordítása)

EK-megfelelőségi nyilatkozata
(2006/42/EK gépirányelv, II. melléklet "A" rész)
1. Alulírott Vállalat
2. Felelősségének teljes tudatában kijelenti, hogy az alábbi gép: Erdészeti motoros láncfűrész Fák kidöntése/darabolása/gallyazása
a) Típus / Alaptípus
b) Hónap / Gyártás éve
c) Gyártási szám
d) Motor: robbanómotor
3. Megfelel az alábbi irányelvek előírásainak:
e) Tanúsító szerv
f) CE vizsgálat típusa
4. Hivatkozás a harmonizált szabványokra
g) Mért zajteljesítmény szint
h) Garantált zajteljesítmény szint
j) Nettó beépített teljesítmény
m) Műszaki Dosszié szerkesztésére felhatalmazott személy:
n) Helye és ideje

RU (Перевод оригинальных инструкций)

Декларация соответствия нормам ЕС
(Директива о машинном оборудовании 2006/42/EC, Приложение II, часть A)
1. Предприятие
2. Заявляет под собственную ответственность, что машина: Цепная пила для лесохозяйственных работ Валка/разделка/обрезка ветвей деревьев
а) Тип / Базовая модель
b) Месяц /Год изготовления
c) Паспорт
d) Двигатель: двигатель внутреннего сгорания
3. Соответствует требованиям следующих директив:
e) Сертифицирующий орган
f) Испытание ЕС типового образца
4. Ссылки на гармонизированные нормы
g) Измеренный уровень звуковой мощности
h) Гарантируемый уровень звуковой мощности
j) Чистая установленная мощность оператора
m) Лицо, уполномоченное на подготовку технической документации:
n) Место и дата

HR (Prijevod originalnih uputa)

EK Izjava o sukladnosti
(Direktiva 2006/42/EZ o strojevima, dodatak II, dio A)
1. Tvrtka:
2. pod vlastitom odgovornošću izjavljuje da je stroj: Motorna lančana pila za šumarstvo Obaranje/prerezivanje/obrezivanje stabala
a) Vrsta / Osnovni model
b) Mjesec / Godina proizvodnje
c) Matični broj
d) Motor: motor s unutarnjim izgaranjem
3. sukladan s temeljnim zahtjevima direktiva:
e) Certifikacijsko tijelo
f) Tipsko ispitivanje EZ
4. Primijenjene su slijedeće harmonizirane norme:
g) Izmjerena razina zvučne snage
h) Zajamčena razina zvučne snage
j) Neto instalirana snaga
m) Osoba ovlaštena za pravljenje Tehničke datoteke:
n) Mjesto i datum

SL (Prevod izvirnih navodil)

ES izjava o skladnosti
(Direktiva 2006/42/ES) , priloga II, del A)
1. Družba
2. pod lastno odgovornostjo izjavlja, da je stroj: Verižna žaga za gozdna dela, Podiranje/rezanje/odstranjevanje vej
a) Tip / osnovni model
b) Mesec /Leto izdelave
c) Serijska številka
d) Motor: motor z notranjim izgorevanjem
3. Skladen je z določili direktiv :
e) Ustanova, ki izda potrdilo
f) ES pregled tipa
4. Sklicevanje na usklajene predpise
g) Izmerjen nivo zvočne moči
h) Zagotovljen nivo zvočne moči
j) Neto instalirana moč
m) Oseba, pooblaščena za sestavo tehnične knjižice:
n) Kraj in datum

BS (Prijevod originalnih uputa)

EZ izjava o sukladnosti
(Direktiva o mašinama 2006/42/EZ, Prilog II, deo A)
1. Firma
2. Daje izjavu pod vlastitom odgovornošću da je mašina: Lančana motorna pila za šumarstvo Obaranje i sječa drveća/rezanje grana
a) Tip / Osnovni model
b) Mjesec / Godina proizvodnje
c) Serijski broj
d) Motor: motor s unutrašnjim izgaranjem
3. sukladna s osnovnim zahtjevima direktive:
e) Certifikaciono tijelo
f) EZ ispitivanje tipa
4. Pozivanje na usklađene norme
g) Izmjereni nivo zvučne snage
h) Garantovani nivo zvučne snage
j) Neto instalisana snaga
m) Osoba ovlaštena za izradu tehničke brošure:
n) Mjesto i datum

SK (Preklad pôvodného návodu na použitie)

ES vyhlásenie o zhode
(Smernica o Strojných zariadeniach 2006/42/ES, Príloha II, časť A)
1. Spoločnosť
2. Vyhlasuje na vlastnú zodpovednosť, že stroj: Reťazová motorová píla pre lesnícke práce, Stínanie/rozrezávanie/odvetvovanie stromov
a) Typ / Základný model
b) Mesiac / Rok výroby
c) Výrobné číslo
d) Motor: spaľovací motor
3. Je v zhode s nariadeniami smerníc:
e) Certifikačný orgán
f) Skúška typu ES
4. Odkaz na Harmonizované normy
g) Nameraná úroveň akustického výkonu
h) Zaručená úroveň akustického výkonu
j) Čistý inštalovaný výkon
m) Osoba autorizovaná na vytvorenie Technického spisu:
n) Miesto a Dátum

RO (Traducerea manualului fabricantului)

CE -Declaratie de Conformitate
(Directiva Maşini 2006/42/CE, Anexa II, partea A)
1. Societatea
2. Declară pe propria răspundere că maşina: Ferăstrău cu lanţ pentru lucrări forestiere Doborâre/secţionare/tăierea ramurilor de copaci
a) Tip / Model de bază
b) Luna /Anul de fabricație
c) Număr de serie
d) Motor: motor cu combustie
3. Este în conformitate cu specificaţiile directivelor:
e) Organism de certificare
f) Examinare CE de Tip
4. Referinţă la Standardele armonizate
g) Nivel de putere sonoră măsurat
h) Nivel de putere sonoră garantat
j) Putere netă instalată
m) Persoană autorizată să întocmească Dosarul Tehnic
n) Locul şi Data

LT (Originalių instrukcijų vertimas)

EB atitikties deklaracija
(Mašinų direktyva 2006/42/CE, Priedas II, dalis A)
1. Bendrovė
2. Prisiima atsakomybę, kad įrenginys: Grandininis pjūklas miško darbamsMedžių kirtimas/pjaustymas/genėjimas
a) Tipas / Bazinis Modelis
b) Mėnuo / Pagaminimo metai
c) Serijos numeris
d) Variklis: vidaus degimo variklis
3. Atitinka direktyvose pateiktas specifikacijas:
e) Sertifikavimo įstaiga
f) CE tipo tyrimas
4. Nuoroda į suderintas Normas
g) Išmatuotas garso galios lygis
h) Užtikrinamas garso galios lygis
j) Instaliuota naudingoji galia
m) Autorizuotas asmuo sudaryti Techninę Dokumentaciją:
n) Vieta ir Data

LV (Instrukciju tulkojums no oriģinālvalodas)

EK atbilstības deklarācija
(Direktīva 2006/42/EK par mašīnām, pielikums II, daļa A)
1. Uzņēmums
2. Uzņemoties par to pilnu atbildību, paziņo, ka mašīna: Grandininis pjūklas miško darbams Koku gāšana/zāģēšana/atzarošana
a) Tips / Bāzes modelis
b) Mēnesis / Ražošanas gads
c) Sērijas numurs
d) Motors: iekšdedzes motors
3. Atbilst šādu direktīvu prasībām:
e) Sertifikācijas iestāde
f) CE tipveida pārbaude
4. Atsauce uz harmonizētiem standartiem
g) Izmērītais skaņas intensitātes līmenis
h) Garantētais skaņas intensitātes līmenis
j) Uzstādītā neto jauda
m) Pilnvarotais darbinieks, kas sagatavoja tehnisko dokumentāciju:
n) Vieta un datums

SR (Prevod originalnih uputstval)

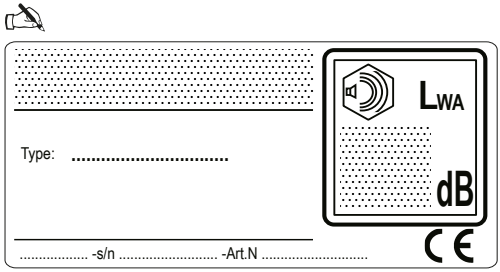
EC deklaracija o usaglašenosti
(Direktiva o mašinama 2006/42/EC, Prilog II, deo A)
1. Preduzeće
2. Daje izjavu pod vlastitom odgovornošću da je mašina: Lančana motorna testera za šumarstvo Obaranje i seča drveća/rezanje grana
a) Tip / Osnovni model
b) Mesec /Godina proizvodnje
c) Serijski broj
d) Motor: motor s unutrašnjim sagorevanjem
3. u skladu s osnovnim zahtevima direktiva:
e) Sertifikaciono telo
f) EC ispitivanje tipa:
4. Pozivanje na usklađene norme
g) Izmereni nivo zvučne snage
h) Garantovani nivo zvučne snage
i) Širina košenja.....................
j) Neto instalisana snaga
m) Osoba ovlašćena za sastavljanje tehničke brošure
n) Mesto i datum

BG (Превод на оригиналните инструкции)

ЕО декларация за съответствие
(Директива Машини 2006/42/ЕО, Приложение II, част A)
1. Дружеството
2. На собствена отговорност декларира, че машината: Моторен верижен трион за горки работи, Сеч/нарязване на трупи/окастряне клоните на дървета
а) Вид / Базисен модел
б) Месец / година на производство
в) Сериен номер
г) Мотор: мотор с вътрешно горене
3. Е в съответствие със спецификата на директивите:
д) Сертифициращ орган
е) ЕО изследване на вида
4. Базирано на хармонизираните норми
ж) Ниво на измерена акустична мощност
и) Гарантирано ниво на акустична мощност
к) Нетна инсталирана мощност
н) Лице, упълномощено да състави Техническата Документация:
р) Място и дата

ET (Algupärase kasutusjuhendi tõlge)

EÜ vastavusdeklaratsioon
(Masinadirektiiv 2006/42/EÜ, Lisa II, osa A)
1. Firma
2. Kinnitab omal vastutusel, et masin: Kettsaag metsatöödeks Puude langetamine/järkamine/laasimine
a) Tüüp / Põhimudel
b) Kuu aega / Tootmisaasta
c) Matrikkel
d) Mootor: Sisepõlemismootor
3. Vastab direktiivide nõuetele:
e) Kinnitav asutus
f) EÜ tüübihindamine
4. Viide ühtlustatud standarditele
g) Mõõdetud helivõimsuse tase
h) Garanteeritud helivõimsuse tase
j) Installeeritud netovõimsus
m) Tehnilise Lehe autoriseeritud koostaja:
n) Koht ja Kuupäev



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