
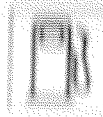




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..... s/n -Art.N	

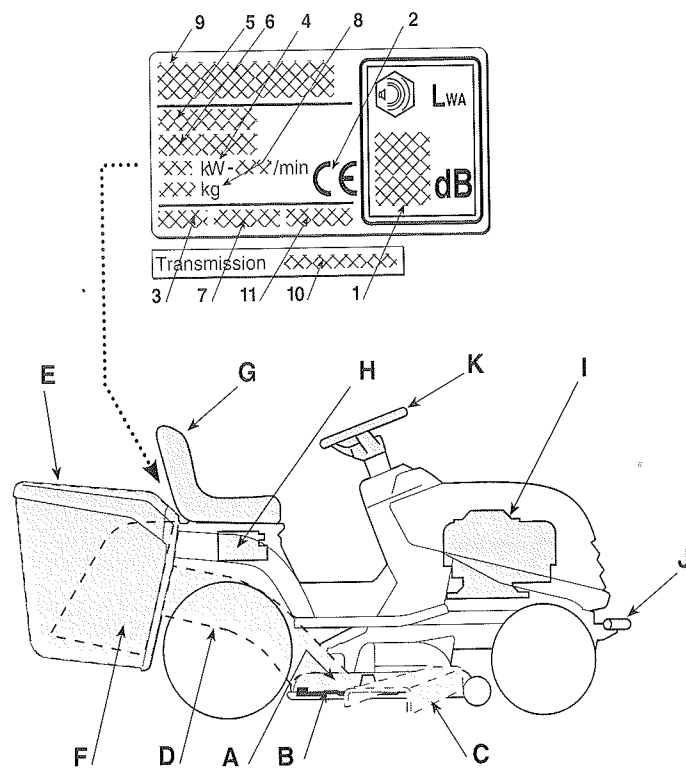
ST. SpA
Via del Lavoro, 6
31033 Castelfranco Veneto (TV) ITALY

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31033 Castelfranco Veneto (TV) ITALY

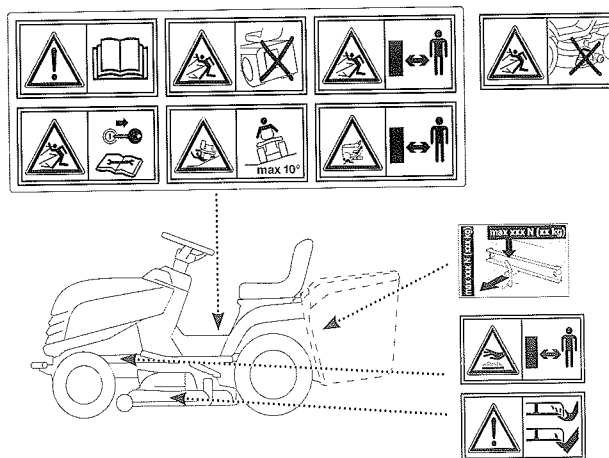


- IT** Tosaerba con conducente a bordo seduto - MANUALE DI ISTRUZIONI
ATTENZIONE: prima di usare la macchina, leggere attentamente il presente libretto.
- DE** Auf faltzmäher (Rasenmäher mit Fahrersitz mit sitzendem Benutzer)
GEBRAUCHSANWEISUNG
ACHTUNG: vor Inbetriebnahme des Geräts die Gebrauchsanleitung aufmerksam lesen.
- EN** Ride-on lawnmower with seated operator - OPERATOR'S MANUAL
WARNING: read thoroughly the instruction booklet before using the machine.
- FR** Tondeuse à gazon à conducteur assis - MANUEL D'UTILISATION
ATTENTION: lire attentivement le manuel avant d'utiliser cette machine.
- NL** Grasmaaier met zittende bediener - GEBRUIKERSHANDLEIDING
LET OP: vooraleer de machine te gebruiken, dient men deze handleiding aandachtig te lezen.

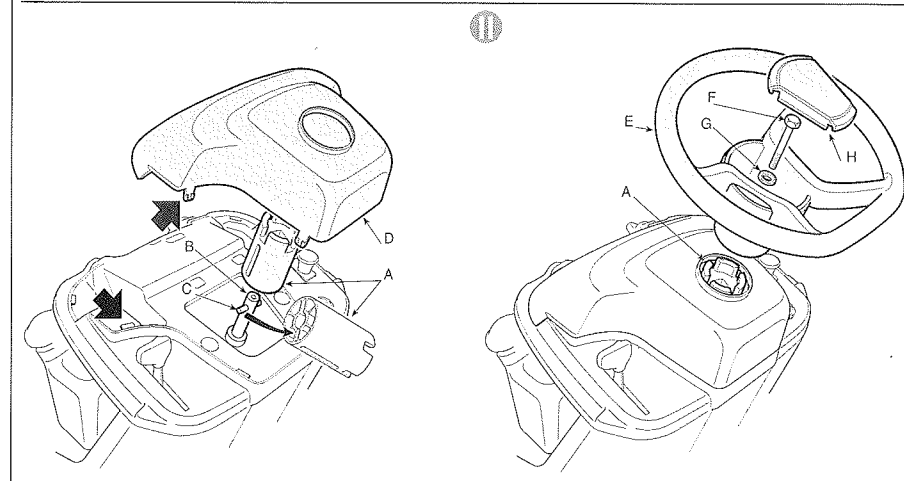
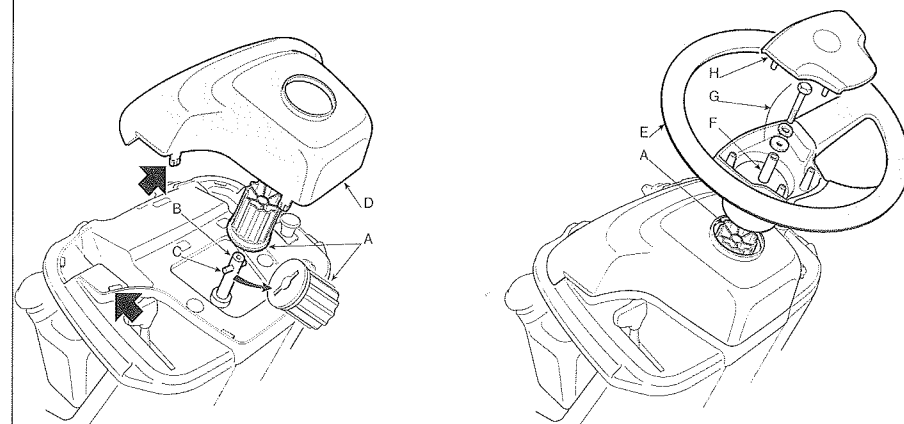
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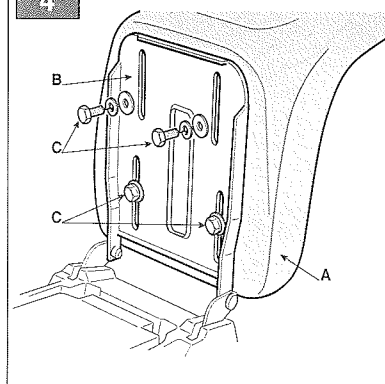
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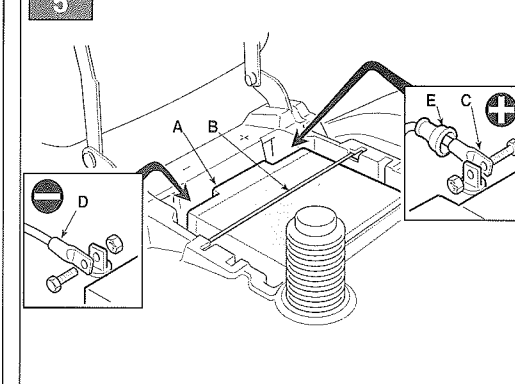
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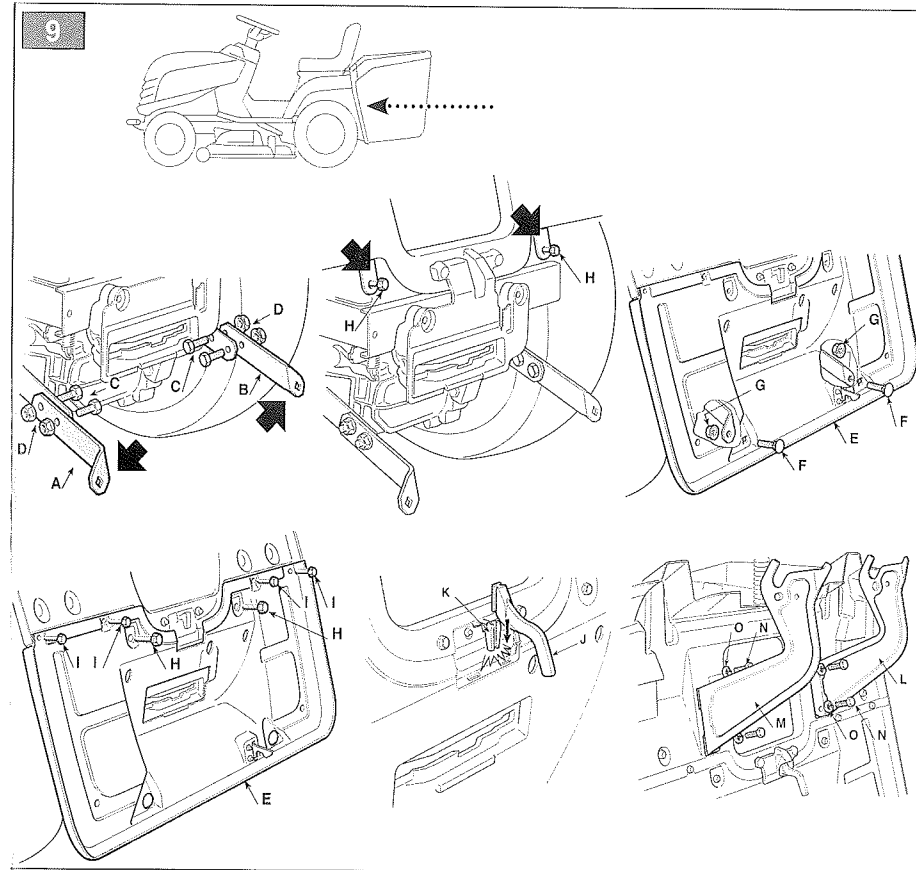
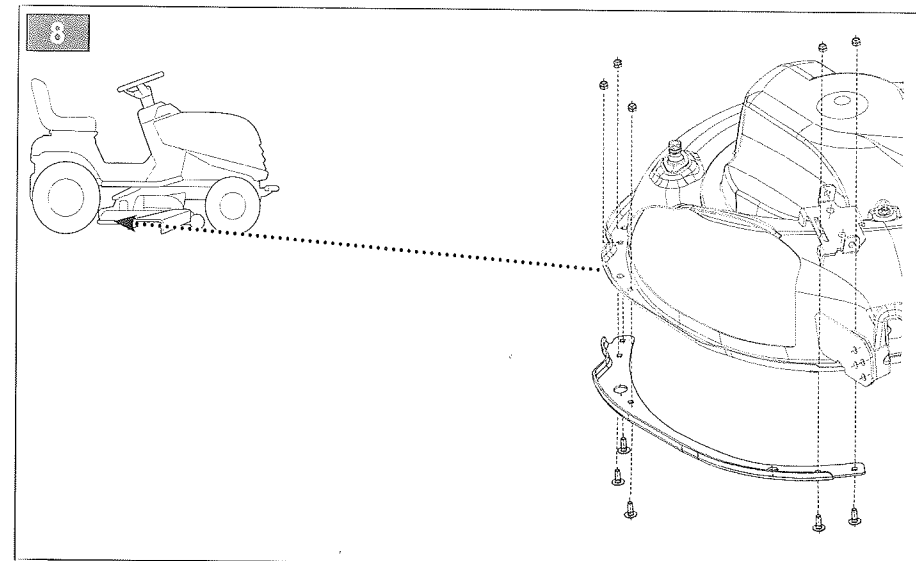
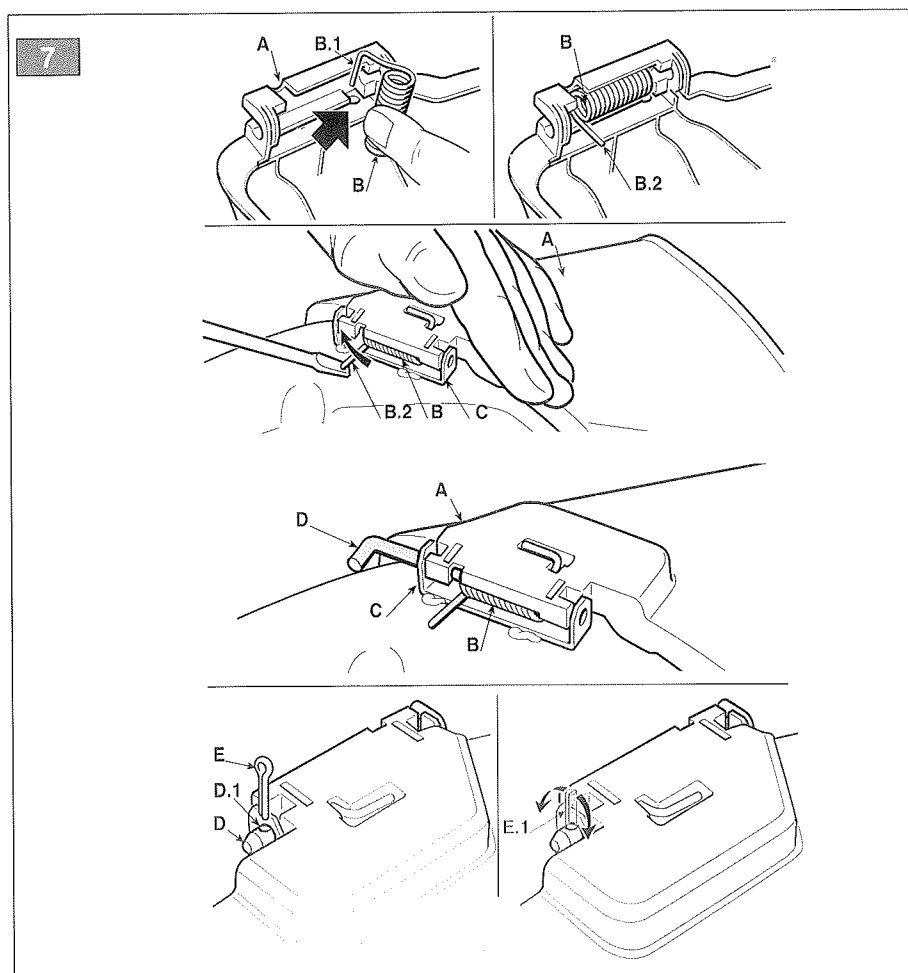
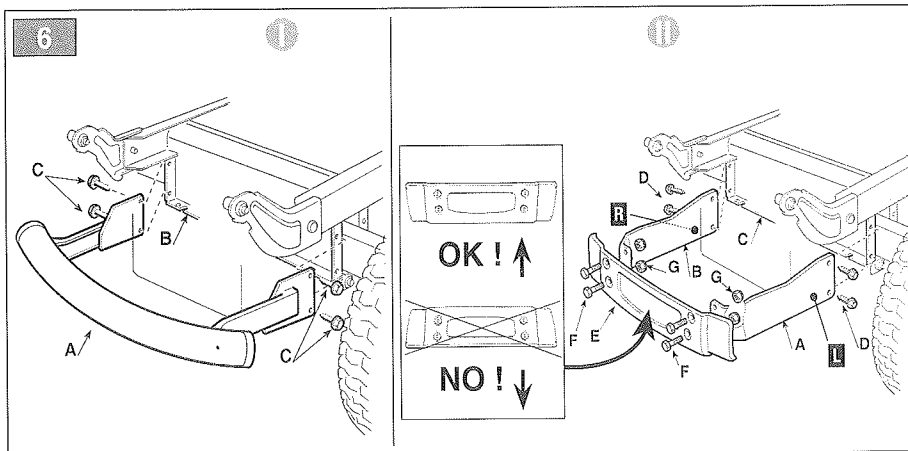


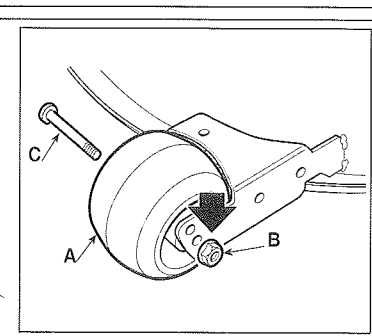
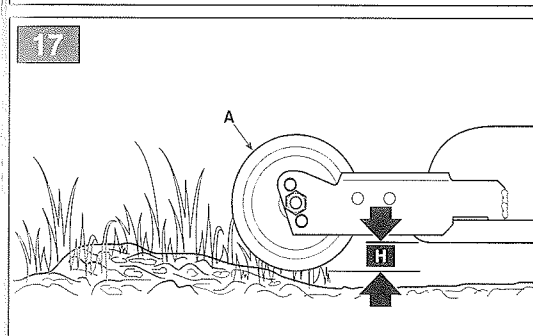
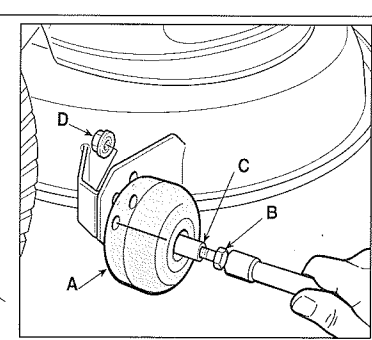
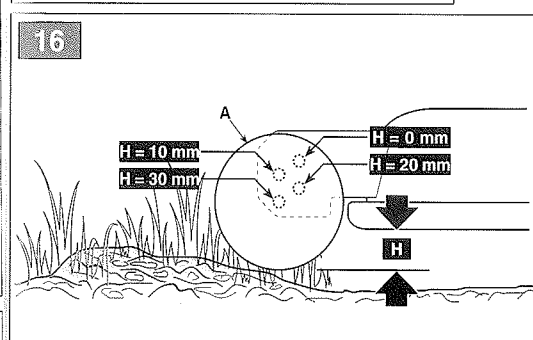
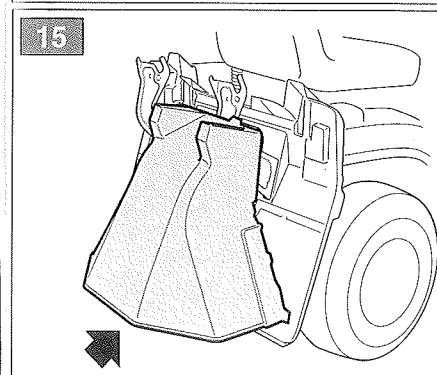
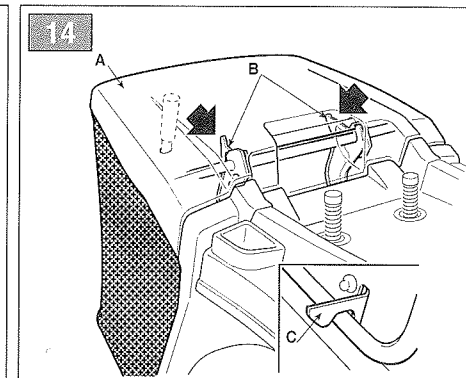
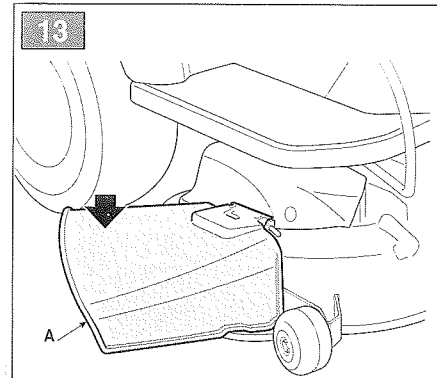
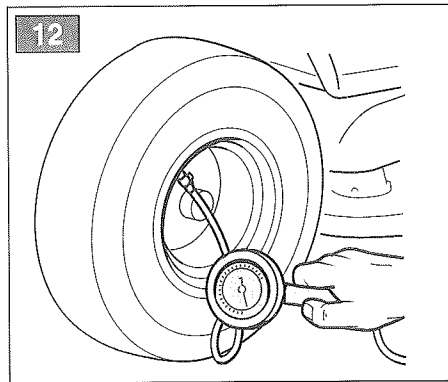
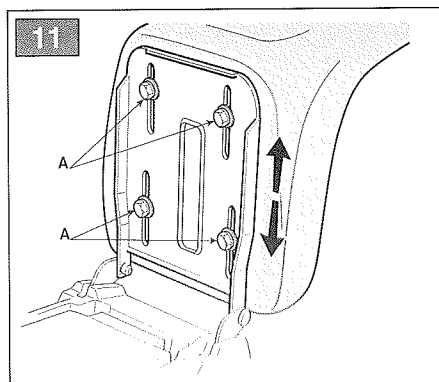
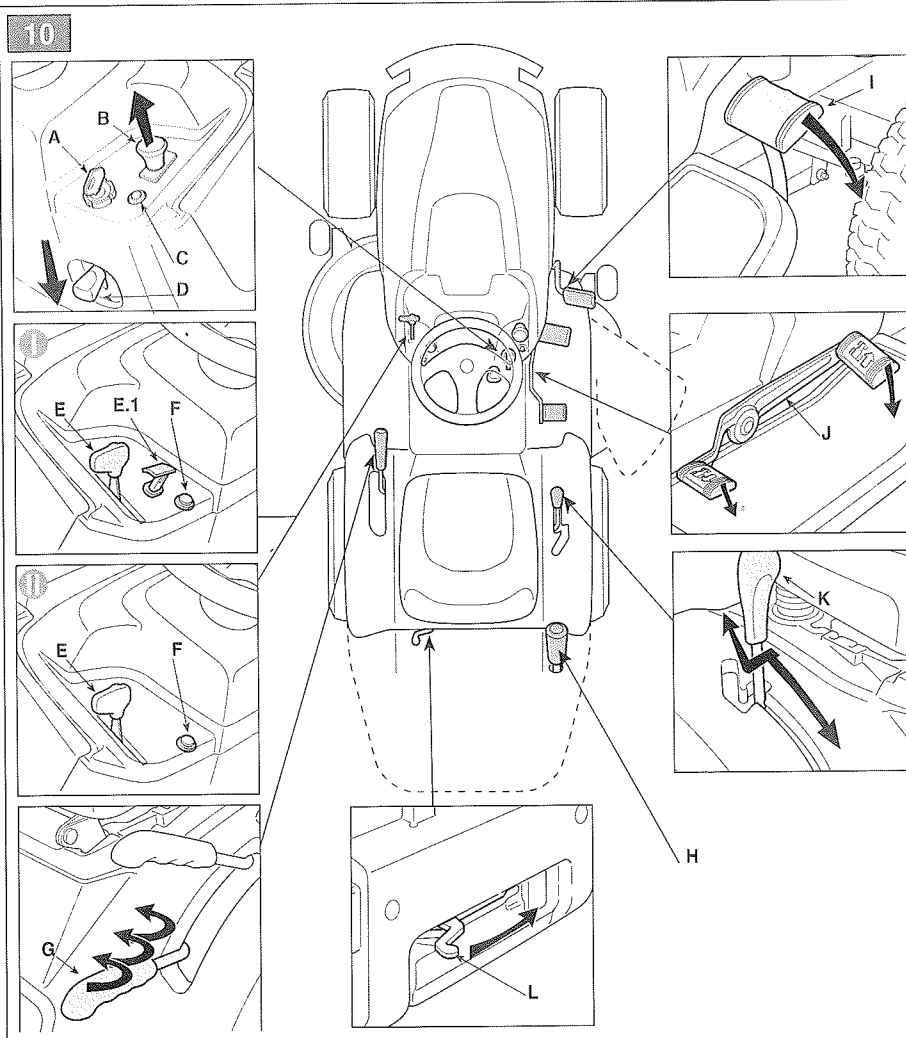
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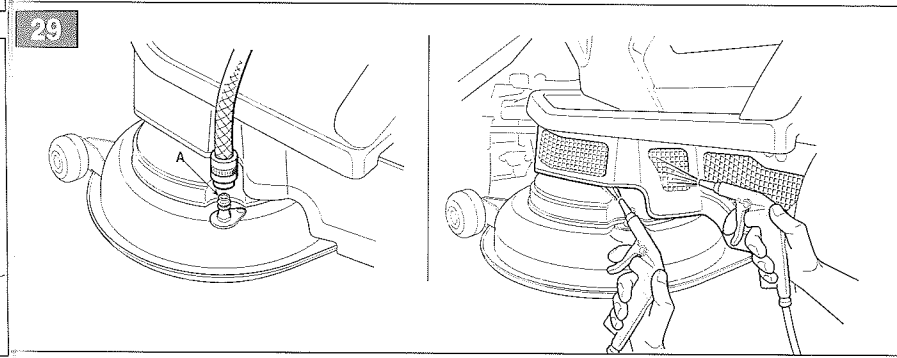
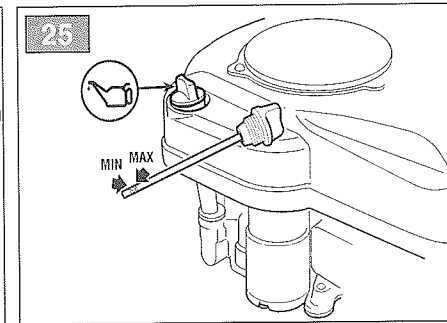
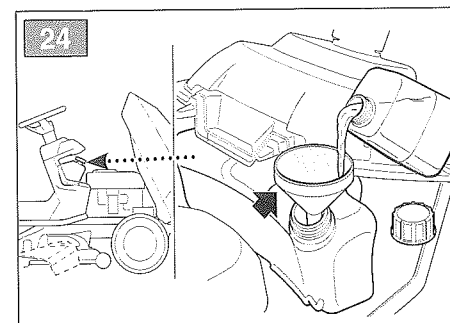
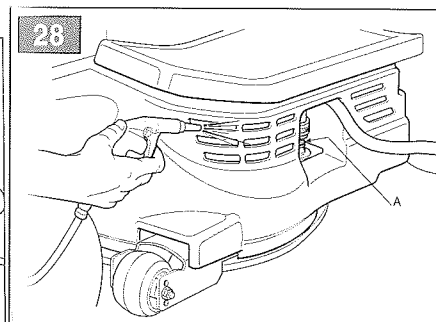
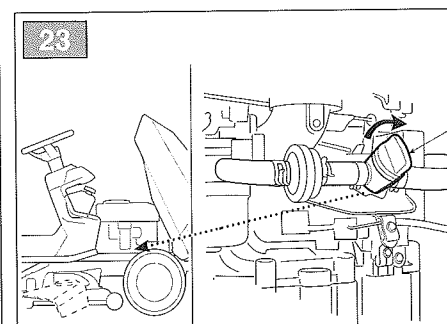
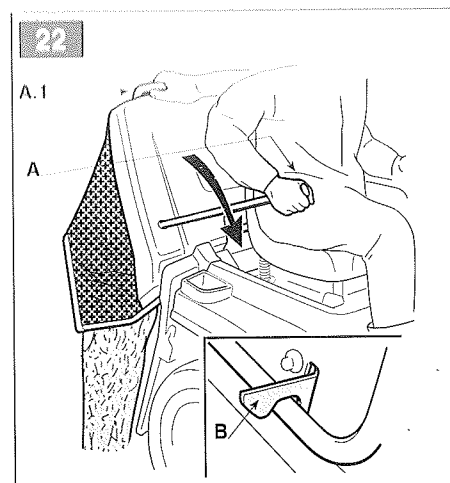
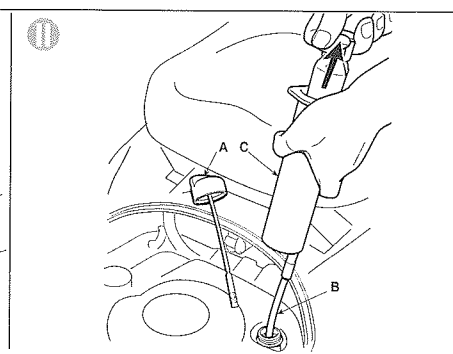
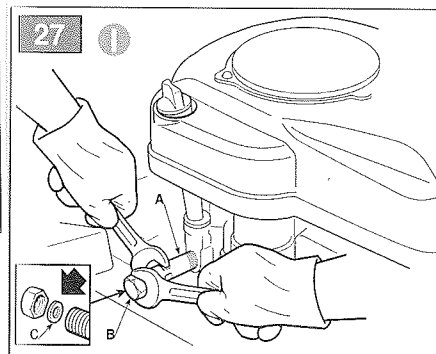
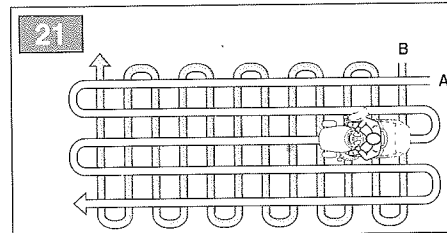
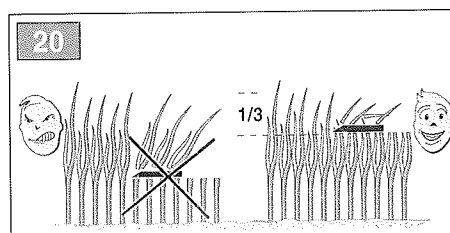
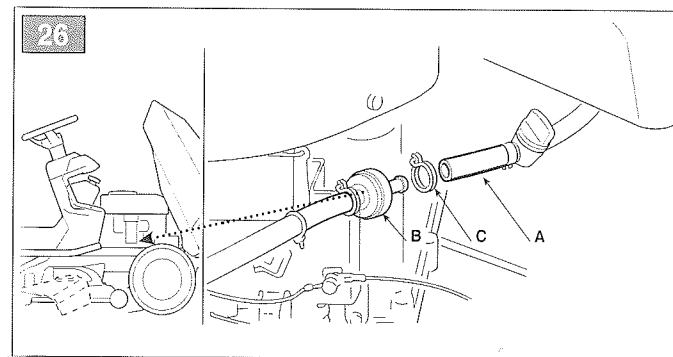
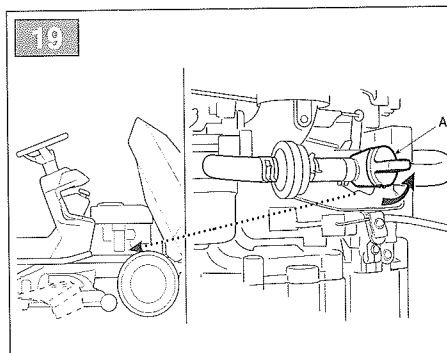
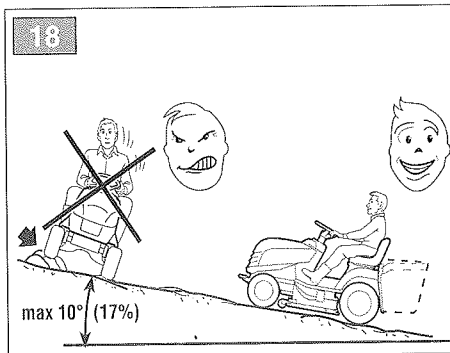


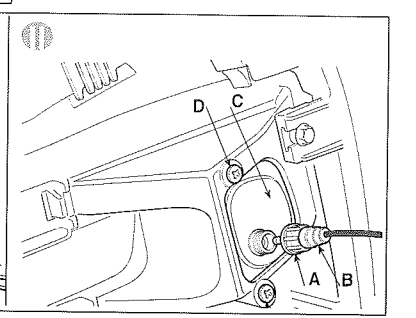
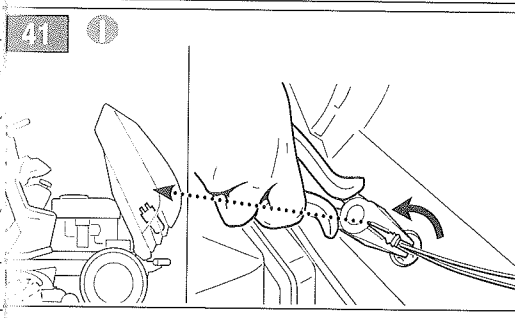
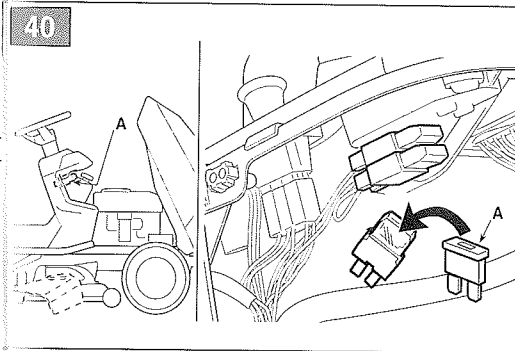
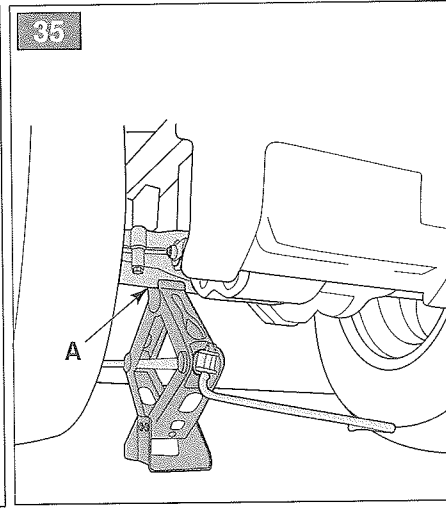
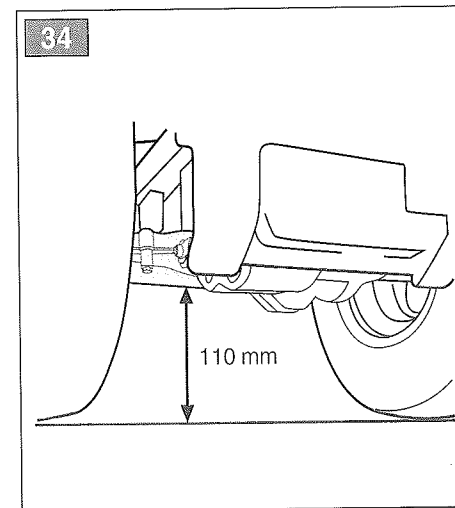
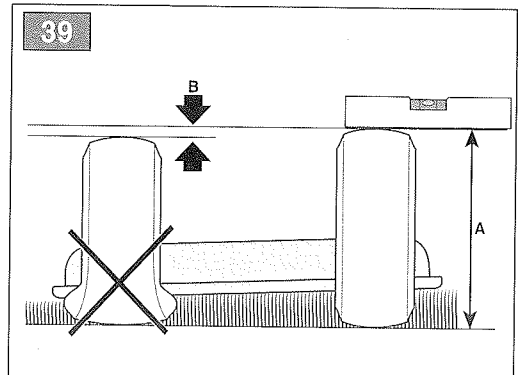
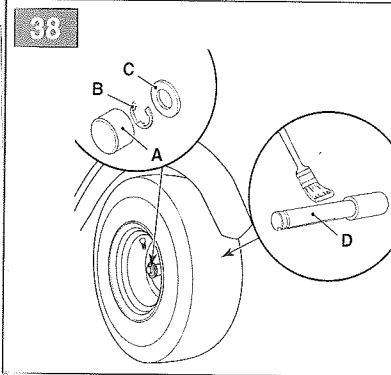
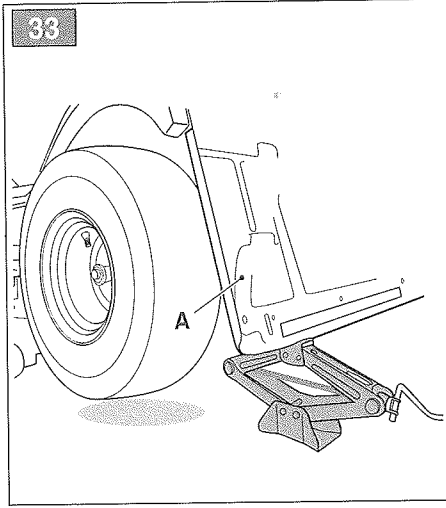
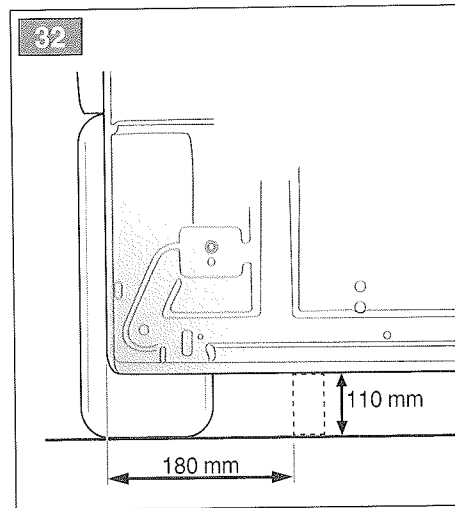
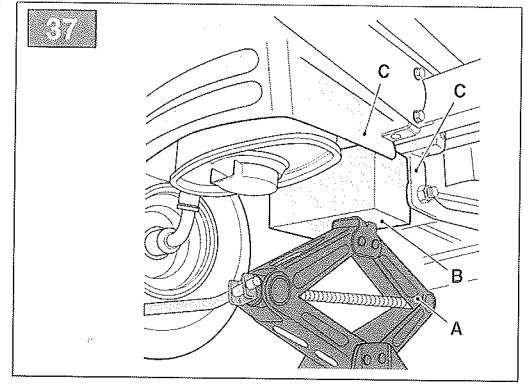
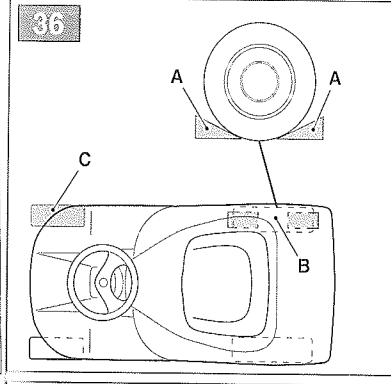
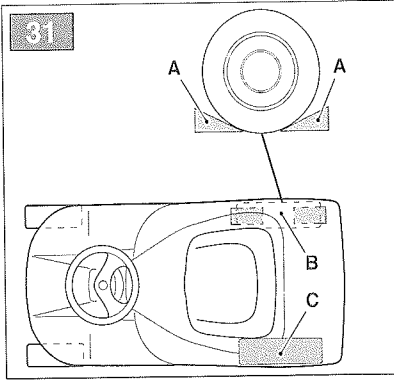
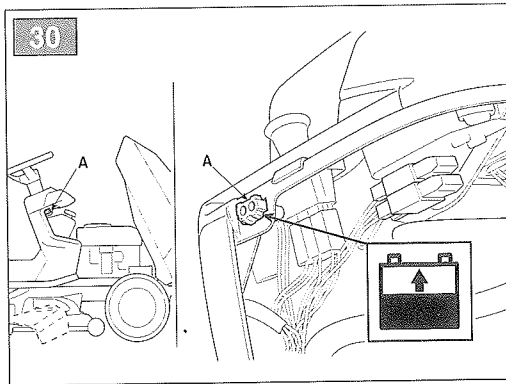
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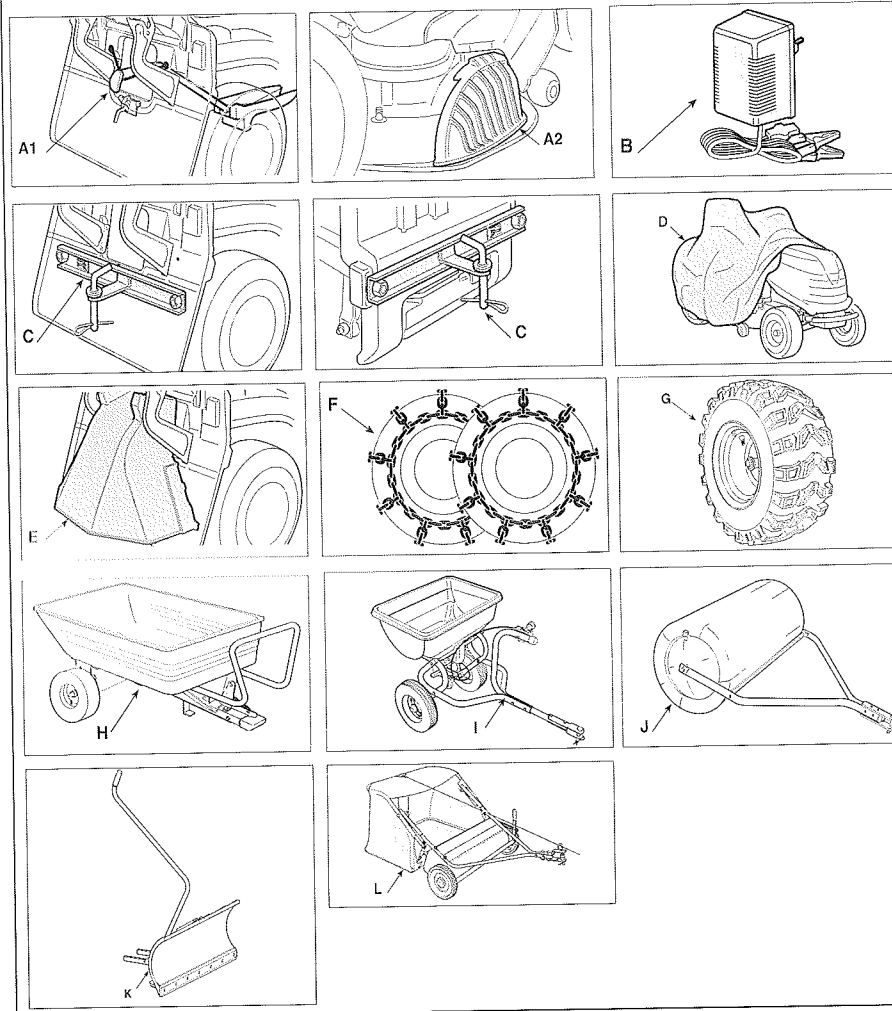












[1]	DATI TECNICI		SD 98 Series	SD 108 Series
[2]	Potenza nominale *	kW	6,4 ÷ 11,5	6,4 ÷ 11,5
[3]	Giri al minuto *	min ⁻¹	2800 ± 100	2800 ± 100
[4]	Impianto elettrico	V	12	12
[5]	Pneumatici anteriori		13 x 5,00-6 (15 x 5,00-6)	13 x 5,00-6 (15 x 5,00-6)
[6]	Pneumatici posteriori		18 x 8,50-8	18 x 8,50-8
[7]	Pressione gonfiaggio anteriore 13 x 5,00-6 15 x 5,00-6	bar	1,5 1,0	1,5 1,0
[8]	Pressione gonfiaggio posteriore	bar	1,2	1,2
[9]	Massa *	kg	160 ÷ 171	160 ÷ 171
[10]	Diametro interno di sterzata (diametro minimo di erba non tagliata) lato sinistro	m	1,4	1,3
[11]	Altezza di taglio	cm	3 ÷ 8,5	3 ÷ 8,5
[12]	Larghezza di taglio	cm	98	107
[13]	Capacità del sacco di raccolta	l	-	-
[14]	Trasmissione meccanica Velocità di avanzamento (indicativa) a 3000 min ⁻¹	km/h	2,2 ÷ 9,7	2,2 ÷ 9,7
[15]	Trasmissione idrostatica Velocità di avanzamento (indicativa) a 3000 min ⁻¹	km/h	0 ÷ 8,8	0 ÷ 8,8
[16]	Limite di velocità con catene da neve (se accessorio previsto)	km/h	9,7	9,7
[17]	Dimensioni			
[18]	Lunghezza	mm	1647	1647
[19]	Lunghezza con sacco (Lunghezza senza sacco)	mm	- -	- -
[20]	Larghezza	mm	-	-
[21]	Larghezza con deflettore di scarico laterale (Larghezza senza deflettore di scarico laterale)		1198 (1051)	1312 (1101)
[22]	Altezza	mm	1068	1068
[23]	Codice dispositivo di taglio		82004346/0	82004357/0
[24]	Capacità del serbatoio carburante	l	6,5	6,5
[25]	Limite di carico per dispositivo di traino (Forza verticale massima)	N (kg)	245 (25)	245 (25)
[26]	Limite di carico per dispositivo di traino (Peso massimo rimorchiabile)	N (kg)	980 (100)	980 (100)
[27]	Inclinazione massima consentita		10° (17%)	10° (17%)
[28]	Livello di pressione acustica	dB(A)	83,8	86,3
[29]	Incertezza di misura	dB(A)	0,3	2,5
[30]	Livello di potenza acustica misurato	dB(A)	99	99
[29]	Incertezza di misura	dB(A)	0,8	0,7
[31]	Livello di potenza acustica garantito	dB(A)	100	100
[32]	Livello di vibrazioni al posto di guida	m/s ²	0,94	0,80
[29]	Incertezza di misura	m/s ²	1,39	1,46
[33]	Livello di vibrazioni al volante	m/s ²	3,33	2,44
[29]	Incertezza di misura	m/s ²	2,72	1,95

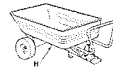
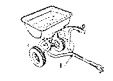


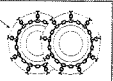
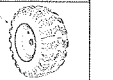
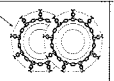


* Per il dato specifico, fare riferimento a quanto indicato nell'etichetta di identificazione della macchina.

[1]	DATI TECNICI		MP 84 Series	MP 98 Series
[2]	Potenza nominale *	kW	5,56 ÷ 9,7	6,3 ÷ 10,3
[3]	Giri al minuto *	min ⁻¹	2300/2400 ± 100	2600 ± 100
[4]	Impianto elettrico	V	12	12
[5]	Pneumatici anteriori		13 x 5,00-6 (15 x 5,00-6)	13 x 5,00-6 (15 x 5,00-6)
[6]	Pneumatici posteriori		18 x 8,50-8 (18 x 6,50-8)	18 x 8,50-8 (18 x 6,50-8)
[7]	Pressione gonfiaggio anteriore 13 x 5,00-6 15 x 5,00-6	bar bar	1,5 1,0	1,5 1,0
[8]	Pressione gonfiaggio posteriore	bar	1,2	1,2
[9]	Massa *	kg	180 ÷ 187	185 ÷ 200
[10]	Diametro interno di sterzata (diametro minimo di erba non tagliata) lato sinistro	m	1,8	1,4
[11]	Altezza di taglio	cm	3 ÷ 8,5	3 ÷ 8,5
[12]	Larghezza di taglio	cm	83	97
[13]	Capacità del sacco di raccolta	l	210 ÷ 240	210 ÷ 240
[14]	Trasmissione meccanica Velocità di avanzamento (indicativa) a 3000 min ⁻¹	km/h	2,2 ÷ 9,7	2,2 ÷ 9,7
[15]	Trasmissione idrostatica Velocità di avanzamento (indicativa) a 3000 min ⁻¹	km/h	0 ÷ 8,8	0 ÷ 8,8
[16]	Limite di velocità con catene da neve (se accessorio previsto)	km/h	9,7	9,7
[17]	Dimensioni			
[18]	Lunghezza	mm	-	-
[19]	Lunghezza con sacco (Lunghezza senza sacco)	mm	2340 (1814)	2340 (1814)
[20]	Larghezza	mm	902	1020
[21]	Larghezza con deflettore di scarico laterale (Larghezza senza deflettore di scarico laterale)		-	-
[22]	Altezza	mm	1098	1098
[23]	Codice dispositivo di taglio		82004358/0 - 82004359/0 82004360/0 - 82004361/0	82004362/0 - 82004363/0 82004346/0 - 82004364/0
[24]	Capacità del serbatoio carburante	l	6,5	6,5
[25]	Limite di carico per dispositivo di traino (Forza verticale massima)	N (kg)	245 (25)	245 (25)
[26]	Limite di carico per dispositivo di traino (Peso massimo rimorchiabile)	N (kg)	980 (100)	980 (100)
[27]	Inclinazione massima consentita		10° (17%)	10° (17%)
[28]	Livello di pressione acustica	dB(A)	86	86
[29]	Incertezza di misura	dB(A)	1,1	1,12
[30]	Livello di potenza acustica misurato	dB(A)	100	100
[29]	Incertezza di misura	dB(A)	0,63	0,65
[31]	Livello di potenza acustica garantito	dB(A)	100	100
[32]	Livello di vibrazioni al posto di guida	m/s ²	1,06	0,7
[29]	Incertezza di misura	m/s ²	0,99	0,25
[33]	Livello di vibrazioni al volante	m/s ²	6,37	8,2
[29]	Incertezza di misura	m/s ²	2,19	1,53

* Per il dato specifico, fare riferimento a quanto indicato nell'etichetta di identificazione della macchina.

[42]	ACCESSORI A RICHIESTA	
[42.A1]	Kit "mulching"	✓
[42.A2]		
[42.B]	Carica batteria di mantenimento	✓
[42.C]	Kit traino	✓
[42.D]	Telo di copertura	✓
[42.E]	Kit di protezione scarico posteriore (solo per modelli MP series)	✓
[42.F]	Catene da neve (18")	✓
[42.G]	Ruote da fango/neve (18")	✓
[42.H]	Rimorchio	45-03453-997
[42.I]	Spargitore	45-03153-997
[42.J]	Rullo per erba	45-0267
[42.K]	Spalaneve a lama	ST-1402
[42.L]	Raccogliatore foglie ed erba 38" (solo per modelli SD series)	45-03313-997
[42.L]	Raccogliatore foglie ed erba 42" (solo per modelli SD series)	45-02616-997

[34] TABELLA PER LA CORRETTA COMBINAZIONE DEGLI ACCESSORI

		[34.A] ACCESSORI POSTERIORI					
							
		[42.H]	[42.I]	[42.J]	[42.L]	[42.F]	[42.G]
[34.B] ACCESSORI FRONTALI		✓	✓	-	-	-	-
	[42.F]						
		✓	✓	-	-	-	-
	[42.G]						
		-	✓	-	-	✓	✓
	[42.K]						

<p>[1] BG - ТЕХНИЧЕСКИ ДАННИ</p> <p>[2] Номинална мощност *</p> <p>[3] Обороти в минута (*)</p> <p>[4] Електрическа система</p> <p>[5] Предни гуми</p> <p>[6] Задни гуми</p> <p>[7] Налигана предно напопване</p> <p>[8] Налигана задно напопване</p> <p>[9] Маса (*)</p> <p>[10] Вътрешен диаметър на завиване (минимален диаметър на вногрязана трева) лява страна</p> <p>[11] Височина на косене</p> <p>[12] Ширина на косене</p> <p>[13] Вместимост на торбата за събиране на трева</p> <p>[14] Механична трансмисия - Скорост на напредване (индикативна) - 3000 min⁻¹</p> <p>[15] Хидростатична трансмисия - Скорост на напредване (индикативна) - 3000 min⁻¹</p> <p>[16] Граница на скоростта в свъгъта за сняг (ако тази принадлежност е предвидена)</p> <p>[17] Размери</p> <p>[18] Дължина</p> <p>[19] Дължина с торбата за събиране на трева (дължина без торбата за събиране на трева)</p> <p>[20] Ширина</p> <p>[21] Ширина с дефлектор на страничното разтоварване (Ширина без дефлектор на страничното разтоварване)</p> <p>[22] Височина</p> <p>[23] Код на инструмента за раззене</p> <p>[24] Вместимост на резервара за гориво</p> <p>[25] Ограничение на товара за телешото устройство (максимална вертикална сила)</p> <p>[26] Ограничение на товара за телешото устройство (максимално тегло за теглене)</p> <p>[27] Максимум допустим наклон</p> <p>[28] Ниво на звуково налягане</p> <p>[29] Носимост на измързване</p> <p>[30] Измерено ниво на акустична мощност</p> <p>[31] Гарантирано ниво на акустична мощност</p> <p>[32] Ниво на вибрации в местото за управление</p> <p>[33] Ниво на вибрации на полана</p>	<p>[34] Таблица за правилното комбинирање на принадлежностите</p> <p>[34.A] Задни принадлежности</p> <p>[34.B] Челни принадлежности</p> <p>[42] Принадлежности по поръчка</p> <p>[42.A1, 42.A2] Набор за "mulching"</p> <p>[42.B] Задни устройство за поддържане</p> <p>[42.C] Набор за теглене</p> <p>[42.D] Покривен брезент</p> <p>[42.E] Набор защита на задно разтоварване (само за модели от серията MP)</p> <p>[42.F] Вериги за сняг (18")</p> <p>[42.G] Колела за кал / сняг (18")</p> <p>[42.H] Ремарке</p> <p>[42.I] Приспособление за разсейване на лъски или чакъл</p> <p>[42.J] Ролка за трева</p> <p>[42.K] Снегорин с острие</p> <p>[42.L] Събирач на листа и трева (само за модели от серията SD)</p> <p>* За специфични данни, вижте посоченото на идентификационния етикет на машината</p> <p>[1] BS - TEHNIČKI PODACI</p> <p>[2] Nazivna snaga (*)</p> <p>[3] Obrtaji u minuti (*)</p> <p>[4] Električna instalacija</p> <p>[5] Prednje gume</p> <p>[6] Zadnje gume</p> <p>[7] Pritisak vazduha u prednjim gumama</p> <p>[8] Pritisak vazduha u zadnjim gumama</p> <p>[9] Masa (*)</p> <p>[10] Unutrašnji prečnik skretanja (najmanji prečnik kada trava nije pokošena) lijeva strana</p> <p>[11] Visina košenja</p> <p>[12] Širina košenja</p> <p>[13] Kapacitet vreće za skupljanje trave</p> <p>[14] Mehanički prijenos Brzina kretanja (orijentaciono) na 3000 min⁻¹</p> <p>[15] Hidrostatički prijenos Brzina kretanja (orijentaciono) na 3000 min⁻¹</p> <p>[16] Ograničenje brzine s lancima za snijeg (ako su oni predviđena dodatna oprema)</p>	<p>[17] Dimenzije</p> <p>[18] Dužina</p> <p>[19] Dužina s vrećom (dužina bez vreće)</p> <p>[20] Širina</p> <p>[21] Širina s usmjerivačem bočnog izbacivanja (Širina bez usmjerivača bočnog izbacivanja)</p> <p>[22] Visina</p> <p>[23] Sifra rezne glave</p> <p>[24] Kapacitet spremnika goriva</p> <p>[25] Granica nosivosti uređaja za vuču (maksimalna vertikalna sila)</p> <p>[26] Granica nosivosti uređaja za vuču (maksimalna težina koja se smije vući)</p> <p>[27] Maksimalni dozvoljen nagib</p> <p>[28] Razina zvučnog pritiska</p> <p>[29] Mjerna nesigurnost</p> <p>[30] Izmjerena razina zvučne snage</p> <p>[31] Garantirana razina zvučne snage</p> <p>[32] Razina vibracija na mjestu vozača</p> <p>[33] Razina vibracija na volanu</p> <p>[34] Tablica za pravilno kombinovanje dodatne opreme</p> <p>[34.A] Zадни додатне опрема</p> <p>[34.B] Предни додатне опрема</p> <p>[42] Dodatna oprema na zahtjev</p> <p>[42.A1, 42.A2] Komplet za malčiranje</p> <p>[42.B] Punjač akumulatora za održavanje</p> <p>[42.C] Komplet za vuču</p> <p>[42.D] Pokrovna cerada</p> <p>[42.E] Komplet šiljinka za izbacivanje odotraga (saмо за seriju modela MP)</p> <p>[42.F] Lanci za snijeg (18")</p> <p>[42.G] Točkovi za blato / snijeg (18")</p> <p>[42.H] Priloka</p> <p>[42.I] Raspak</p> <p>[42.J] Valjak za travu</p> <p>[42.K] Plug za snijeg s nožem</p> <p>[42.L] Skupljač lišća i trave (saмо за seriju modela SD)</p> <p>* За специфични податак, погледајте што је наведено на идентификациској најепници маšине</p>	<p>[1] DE - TECHNISCHE DATEN</p> <p>[2] Nennleistung (*)</p> <p>[3] Umdrehungen pro Minute (*)</p> <p>[4] Elektrische Anlage</p> <p>[5] Reifen Vorderräder</p> <p>[6] Reifen Hinterräder</p> <p>[7] Reifendruck vorne</p> <p>[8] Reifendruck hinten</p> <p>[9] Gewicht (*)</p> <p>[10] Innere Wendekreisdurchmesser (Mindesdurchmesser bei nicht geschnittenem Gras) linke Seite</p> <p>[11] Schnitthöhe</p> <p>[12] Schnittbreite</p> <p>[13] Fassungsvermögen der Grasfangeinrichtung</p> <p>[14] Mechanischer Antrieb - Vorschubgeschwindigkeit (Richtwert) bei 3000 min⁻¹</p> <p>[15] Hydrosatischer Antrieb - Vorschubgeschwindigkeit (Richtwert) bei 3000 min⁻¹</p> <p>[16] Geschwindigkeitsgrenze mit Schneeketten (falls als Zubehör vorgesehen)</p> <p>[17] Abmessungen</p> <p>[18] Länge</p> <p>[19] Länge mit Grasfangeinrichtung (Länge ohne Grasfangeinrichtung)</p> <p>[20] Breite</p> <p>[21] Breite mit seitlichem Auswurdeflektor (Breite ohne seitlichen Auswurdeflektor)</p> <p>[22] Höhe</p> <p>[23] Code Schneidwerkzeug</p> <p>[24] Inhalt des Kraftstofftanks</p> <p>[25] Lastgrenze für Zugvorrichtung (max. senkrechte Kraft)</p> <p>[26] Lastgrenze für Zugvorrichtung (max. Zuggewicht)</p> <p>[27] Max. zulässige Neigung</p> <p>[28] Schalldruckpegel</p> <p>[29] Messungseingauigkeit</p> <p>[30] Gemessener Schalleistungspegel</p> <p>[31] Garantierter Schalleistungspegel</p> <p>[32] Vibrationspegel am Fahrersitz</p> <p>[33] Vibrationspegel am Lenkrad</p> <p>[34] Übersicht für die korrekte zubehörkombination</p> <p>[34.A] Heckseitiges zubehör</p>	<p>[34.B] Frontseitiges zubehör</p> <p>[42] Sonderzubehör</p> <p>[42.A1, 42.A2] "Mulching"-kit</p> <p>[42.B] Batterie-ladegerät</p> <p>[42.C] Zugvorrichtung</p> <p>[42.D] Abdeckung</p> <p>[42.E] Kit hinterer auswurfschutz (nur für MP-Series)</p> <p>[42.F] Schneeketten (18")</p> <p>[42.G] M+S-Räder (Matsch- und Schneeräder) (18")</p> <p>[42.H] Anhänger</p> <p>[42.I] Streuer</p> <p>[42.J] Rassenwalze</p> <p>[42.K] Schneepflug</p> <p>[42.L] Sammler für laub und gras (nur für SD-Series)</p> <p>* Für die genaue Angabe nehmen Sie bitte auf das Typenschild der Maschine Bezug.</p> <p>[1] EL - ΤΕΧΝΙΚΑ ΧΑΡΑΚΤΗΡΙΣΤΙΚΑ</p> <p>[2] Ονομαστική ισχύς (*)</p> <p>[3] Στροφές ανά λεπτό (*)</p> <p>[4] Ηλεκτρικό σύστημα</p> <p>[5] Εμπρόσθια ελαστικά</p> <p>[6] Πίσω ελαστικά</p> <p>[7] Πίεση εμπρόσθων ελαστικών</p> <p>[8] Πίεση πίσω ελαστικών</p> <p>[9] Βάρος (*)</p> <p>[10] Εσωτερική διάμετρος στροφής (ελάχιστη διάμετρος χλόης που δεν κόβεται) αριστερή πλευρά</p> <p>[11] Ύψος κοπής</p> <p>[12] Πλάτος κοπής</p> <p>[13] Χωρητικότητα του κάδου περισυλλογής</p> <p>[14] Μηχανικό σύστημα μετάδοσης Ταχύτητα κίνησης (ένδεικτική) στις 3000 σ.α.λ.</p> <p>[15] Υδροστατικό σύστημα μετάδοσης Ταχύτητα κίνησης (ένδεικτική) στις 3000 σ.α.λ.</p> <p>[16] Όριο ταχύτητας με αλυσίδες χιονιού (αν προβλέπεται ως αξεσουάρ)</p> <p>[17] Διαστάσεις</p> <p>[18] Μήκος</p>	<p>[19] Μήκος με κάδο (μήκος χωρίς κάδο)</p> <p>[20] Πλάτος</p> <p>[21] Πλάτος με πλευρικό εκτροπέα αποβολής (Πλάτος χωρίς πλευρικό εκτροπέα αποβολής)</p> <p>[22] Ύψος</p> <p>[23] Κωδικός συστήματος κοπής</p> <p>[24] Χωρητικότητα του ντεπόζιτου καυσίμου</p> <p>[25] Όριο φορτίου για το σύστημα ρυμούλκησης (μέγιστη κάδεται δύναμη)</p> <p>[26] Όριο φορτίου για το σύστημα ρυμούλκησης (μέγιστη ρυμουλκούμενο βάρος)</p> <p>[27] Μέγιστη επιτρεπόμενη γωνία</p> <p>[28] Στάθμη ακουστικής πίεσης</p> <p>[29] Αρεβούτητα μέτρησης</p> <p>[30] Μεταμηνή στάθμη ακουστικής ισχύος</p> <p>[31] Εγγυημένη στάθμη ακουστικής ισχύος</p> <p>[32] Επίπεδο κραδασμών στη θέση του οδηγού</p> <p>[33] Επίπεδο κραδασμών στο τιμόνι</p> <p>[34] οωστος πίνακας για το σωστο συνδυασμο των παρελκομενων</p> <p>[34.A] οπισθια παρελκομενα</p> <p>[34.B] εμπροσθια παρελκομενα</p> <p>[42] απομεινω παρελκομενα</p> <p>[42.A1, 42.A2] Σετ "mulching"</p> <p>[42.B] Φορτιστης συντηρητης μπαταρίας</p> <p>[42.C] Σετ ρυμουλκιστος</p> <p>[42.D] Καλυμμα προστασίας</p> <p>[42.E] Σετ προστασίας οπισθιας αποβολής (μόνο για τα μοντέλα της σειράς MP)</p> <p>[42.F] Αλυσίδες χιονίου (18")</p> <p>[42.G] Τροχήλ για λάσπη / χιόνι (18")</p> <p>[42.H] Ρυμουλκούμενο</p> <p>[42.I] Διαανομεας</p> <p>[42.J] Κυλιανδρος για χλοη</p> <p>[42.K] Εκχυσινος με λωια</p> <p>[42.L] Συλλεκτης φυλλαων και χλοης (μόνο για τα μοντέλα της σειράς SD)</p> <p>* Για το συγκεκριμένο στοιχείο, ελέγξτε τα όσα αναγράφονται στην ετικέτα προσδιορισμού του μηχανήματος</p>
<p>[1] CS - TECHNICKÉ PARAMETRY</p> <p>[2] Jmenovitý výkon (*)</p> <p>[3] Otáčky za minutu (*)</p> <p>[4] Elektroinstalace</p> <p>[5] Přední pneumatiky</p> <p>[6] Zadní pneumatiky</p> <p>[7] Tlak huštění předních pneumatik</p> <p>[8] Tlak huštění zadních pneumatik</p> <p>[9] Hmotnost (*)</p> <p>[10] Vnitřní průměr zatačení (minimální průměr plochy s neposečenou trávou) levá strana</p> <p>[11] Výška sekání</p> <p>[12] Šířka sekání</p> <p>[13] Kapacita sběrného koše</p> <p>[14] Mechanická převodovka Rychlost jezdů (přibližná) při 3000 min⁻¹</p> <p>[15] Hydrostatická převodovka Rychlost jezdů (přibližná) při 3000 min⁻¹</p> <p>[16] Mezní rychlost se sněhovými řetězy (pokud se jedná o určené příslušenství)</p> <p>[17] Rozměry</p> <p>[18] Délka</p> <p>[19] Délka s košem (Délka bez koše)</p> <p>[20] Šířka</p> <p>[21] Šířka vychylovače bočního výhozu (Šířka bez vychylovače bočního výhozu)</p> <p>[22] Výška</p> <p>[23] Kód sekacího zařízení</p> <p>[24] Kapacita palivové nádržky</p> <p>[25] Mezní zatížení tažného zařízení (max. svislá síla)</p> <p>[26] Mezní zatížení tažného zařízení (max. tažná hmotnost)</p> <p>[27] Maximální povolené naklonění</p> <p>[28] Úroveň akustického tlaku</p> <p>[29] Nepřesnost měření</p> <p>[30] Úroveň naměřeného akustického výkonu</p> <p>[31] Úroveň zaručeného akustického výkonu</p> <p>[32] Úroveň vibrací na místě řidiče</p> <p>[33] Úroveň vibrací na volantu</p> <p>[34] Tabulka pro správnou kombinaci příslušenství</p>	<p>[34.A] Zadní příslušenství</p> <p>[34.B] Přední příslušenství</p> <p>[42] Příslušenství na požádání</p> <p>[42.A1, 42.A2] Sada pro mulčování</p> <p>[42.B] Udržovač nabíječka akumulátoru</p> <p>[42.C] Sada tažného zařízení</p> <p>[42.D] Krycí plachta</p> <p>[42.E] Sada ochranného krytí zadního výhozu (jen pro modely řady MP)</p> <p>[42.F] Sněhové řetězy (18")</p> <p>[42.G] Kola do bláta / sněhu (18")</p> <p>[42.H] Přívěs</p> <p>[42.I] Posypávač</p> <p>[42.J] Válec pro válcování trávy</p> <p>[42.K] Sněhová radlice</p> <p>[42.L] Sběrač listů a trávy (jen pro modely řady SD)</p> <p>* Ohledně uvedeného údaje vycházejte z hodnoty uvedené na identifikačním štítku stroje.</p> <p>[1] DA - TEKNISKE DATA</p> <p>[2] Nominel effekt (*)</p> <p>[3] Omdrejninger pr. minut (*)</p> <p>[4] Elektrisk anlæg</p> <p>[5] Forhjulsdæk</p> <p>[6] Baghjulsdæk</p> <p>[7] Pumpetryk for forræk</p> <p>[8] Pumpetryk for bagræk</p> <p>[9] Vægt (*)</p> <p>[10] Intern drejediometer (minimumdiometer for ikke-afklippet græs) venstre side</p> <p>[11] Klippehøjde</p> <p>[12] Klippebredde</p> <p>[13] Størrelse på opsamlingspose</p> <p>[14] Mekanisk transmission Fremdriftshastighed (vejledende) ved 3000 min⁻¹</p> <p>[15] Hydrostatisk transmission Fremdriftshastighed (vejledende) ved 3000 min⁻¹</p> <p>[16] Hastighedsgrænse med snekedder (hvis disse er monteret)</p> <p>[17] Mål</p> <p>[18] Længde</p>	<p>[19] Længde med opsamlingspose (længde uden pose)</p> <p>[20] Bredde</p> <p>[21] Bredde med sideudkast skærm (Hvis monteret)</p> <p>[22] Højde</p> <p>[23] Skæreanordningens varent.</p> <p>[24] Brændstoftankens kapacitet</p> <p>[25] Belastningsgrænse for trækanordning (maksimal, vertikal effekt)</p> <p>[26] Belastningsgrænse for trækanordning (maksimal tilladt vægning)</p> <p>[27] Maksimal anghænger vægning</p> <p>[28] Lydtryksniveau</p> <p>[29] Måleusikkerhed</p> <p>[30] Målt lydeffektniveau</p> <p>[31] Garanteret lydeffektniveau</p> <p>[32] Vibrationsniveau på førersædet</p> <p>[33] Vibrationsniveau ved rattet</p> <p>[34] Tabel over udstyrets korrekte kombination</p> <p>[34.A] Bagmonteret tilbehør</p> <p>[34.B] Formonteret tilbehør</p> <p>[42] Ekstraudstyr</p> <p>[42.A1, 42.A2] Sæt til "Mulclipl"</p> <p>[42.B] Udligningsbatterilader</p> <p>[42.C] Sæt til busgering</p> <p>[42.D] Presenning</p> <p>[42.E] Sæt til beskyttelse på bagudkast (bare for MP serie modeller)</p> <p>[42.F] Snekedder (18")</p> <p>[42.G] Mudder- og snehjul (18")</p> <p>[42.H] Anhænger</p> <p>[42.I] Fordeler</p> <p>[42.J] Græsvalse</p> <p>[42.K] Sneeplov med skrabeskær</p> <p>[42.L] Opsamlingsmaskine til blade og græs (bare for SD serie modeller)</p> <p>* For disse data henvises til hvad der er angivet på maskinens identifikationsmærkat.</p>	<p>[1] EN - TECHNICAL DATA</p> <p>[2] Nominal power (*)</p> <p>[3] RPM (*)</p> <p>[4] Electrical system</p> <p>[5] Front tyres</p> <p>[6] Rear tyres</p> <p>[7] Front tyre pressure</p> <p>[8] Rear tyre pressure</p> <p>[9] Mass (*)</p> <p>[10] Inside turning circle (minimum diameter of uncut grass) left side</p> <p>[11] Cutting height</p> <p>[12] Cutting width</p> <p>[13] Grass catcher capacity</p> <p>[14] Mechanical transmission Forward speed (approximate) at 3000 min⁻¹</p> <p>[15] Hydrostatic transmission Forward speed (approximate) at 3000 min⁻¹</p> <p>[16] Speed limit with snow chains (if available)</p> <p>[17] Dimensions</p> <p>[18] Length</p> <p>[19] Length with grass catcher (length without grass catcher)</p> <p>[20] Width</p> <p>[21] Width with side discharge chute (Width without side discharge chute)</p> <p>[22] Height</p> <p>[23] Cutting means code</p> <p>[24] Fuel tank capacity</p> <p>[25] Admissible load on towing device (maximum vertical weight)</p> <p>[26] Admissible load for towing device (maximum towing weight)</p> <p>[27] Maximum admissible tilt</p> <p>[28] Acoustic pressure level</p> <p>[29] Measurement uncertainty</p> <p>[30] Measured acoustic power level</p> <p>[31] Guaranteed acoustic power level</p> <p>[32] Operator position vibration level</p> <p>[33] Steering wheel vibration level</p> <p>[34] Table for correct accessory combinations</p> <p>[34.A] Rear accessories</p> <p>[34.B] Front accessories</p>	<p>[42] Accessories available on request</p> <p>[42.A1, 42.A2] "Mulching" kit</p> <p>[42.B] Maintenance battery charger</p> <p>[42.C] Towing kit</p> <p>[42.D] Cloth cover</p> <p>[42.E] Rear discharge guard kit (only for MP series)</p> <p>[42.F] Snow chains (18")</p> <p>[42.G] Mud / Snow wheels (18")</p> <p>[42.H] Trailer</p> <p>[42.I] Sprinkler</p> <p>[42.J] Lawn roller</p> <p>[42.K] Snow shovel</p> <p>[42.L] Leaf and grass catcher (only for SD series)</p> <p>* Please refer to the data indicated on the machine's identification plate for the exact figure.</p> <p>[1] ES - 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STÖRUNG	MÖGLICHE URSACHE	ABHILFE
17. Die Maschine beginnt auf anormale Weise zu vibrieren und/oder hat einen Fremdkörper getroffen	Beschädigung oder gelöste Teile	Halten Sie die Maschine an und ziehen Sie den Schlüssel ab.
		Eventuellen Beschädigungen prüfen
		Prüfen, ob Teile sich gelöst haben und diese festziehen
		Die Kontrollen, Auswechsel- und Reparaturarbeiten in einem Fachbetrieb durchführen lassen

Wenn die Störungen nach den beschriebenen Eingriffen anhalten, Ihren Händler kontaktieren.

15. ANBAUGERÄTE

15.1 MULCHING-KIT

Zerhackt das geschnittene Gras fein und lässt es auf dem Rasen (Abb. 42.A1; Abb. 42.A2).

15.2 BATTERIELADEGERÄT

Erlaubt die Erhaltung des optimalen Ladezustandes der Batterie während der Stilllegung der Maschine und verlängert dadurch die Lebensdauer der Batterie (Abb. 42.B).

15.3 ZUGVORRICHTUNG

Dient zum Ankoppeln eines kleinen Anhängers (Abb. 42.C).

15.4 ABDECKUNG

Schützt die Maschine vor Staub, wenn sie nicht benutzt wird (Abb. 42.D).

15.5 KIT HINTERER AUSWURFSCHUTZ

Anstelle der Grasfangeinrichtung zu verwenden, wenn das Gras nicht gesammelt wird (Abb. 42.E).
(nur für Fahrzeuge mit hinterem Auswurf).

15.6 SCHNEEKETTEN 18"

Sie verbessern die Haftung der Hinterräder auf schneebedeckten Abschnitten und ermöglichen die Verwendung des Schneepflugs (Abb. 42.F).

15.7 MATSCH- UND SCHNEERÄDER 18"

Zum Verbesserung der Zugleistung auf Schnee und Matsch.

15.8 ANHÄNGER

Für den Transport von Werkzeugen oder anderen Gegenständen, innerhalb der zulässigen Gewichtsgrenzen (Abb. 42.H).

15.9 STREUER

Zum Streuen von Salz oder Dünger (Abb. 42.I).

15.10 RASENWALZE

Um den Boden nach dem Säen zu verdichten oder das Gras platt zu drücken (Abb. 42.J).

15.11 SCHNEEPFLUG

Für das Verschieben und seitliche Ansammeln des entfernten Schnees (Abb. 42.K).

15.12 SAMMLER FÜR LAUB UND GRAS

Zum Sammeln von Laub und Gras auf Rasenflächen (Abb. 42.L).

EN



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

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1. GENERAL INFORMATION

1.1 HOW TO READ THE MANUAL

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

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

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

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

Whenever reference is made to a position on the machine "front", "back", "left" or "right" hand side, this 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. Components shown in the figures are marked A, B, C, etc.


A reference to component C in figure 2 is written: "See fig. 2.C" or simply "(Fig. 2.C)". The figures are given as a guide only. The actual parts may vary from those shown.

1.2.2 Titles

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

2. SAFETY REGULATIONS

2.1 TRAINING

 **Become acquainted with the controls and the proper use of the machine. Learn**

how to stop the engine 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 his reflexes and compromise his judgement.
- Do not allow children or other passengers to ride on the machine.
- 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 looks over the user instructions contained in this manual.

2.2 PREPARATION


Personal Protective Equipment (PPE)

- Always wear suitable work attire, hard-wearing safety footwear with non-slip soles and long trousers. Do not operate the machine when barefoot or wearing open sandals. Wear hearing protection devices.
- Never wear scarves, shirts, necklaces, bracelets, clothing with flowing parts, 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.

Work area/Machine

- Thoroughly inspect the entire work area and remove anything that could be thrown by the machine or damage the cutting means/rotating units (stones, branches, iron wire, bones, etc.).

Internal combustion engines: fuel

 **DANGER!** The fuel is highly flammable.

- Keep the fuel in approved containers, in a safe place, away from any naked lights or heat sources.
- Keep the containers and storage area free of grass cuttings, leaves, or excessive grease.
- Keep the containers out of the reach of children.

- Do not smoke when filling 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 while 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 spilled 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 have to be effected in an open or well ventilated area. Always remember that exhaust gases 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. Instruct another adult to supervise any children in the vicinity.
- Avoid working with wet grass, in the rain and when there is a risk of a thunderstorm, especially lightening.
- 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. The machine could overturn if a wheel slides over the edge or if the earth gives way.

- Pay attention on sloping ground which requires particular care to prevent overturning or loss of control of the machine. The main reasons for loss of control are:
 - Insufficient wheel grip
 - Excessive speed
 - Inadequate braking
 - Type of machine unsuitable for its task
 - Lack of awareness of the effect of ground conditions, especially slopes
 - Incorrect use as a towing machine.

Behaviour

- When working behind the wheel, do not become distracted and maintain the required level of concentration.
- Exercise caution when reversing or moving backwards. Look behind you to make sure there are no obstacles before and during operations in reverse gear.
- Use care when pulling loads or using heavy equipment:
 - Use approved drawbar hitch points only when towing;
 - Do not turn sharply. Take care when reversing;
 - Use counterweight(s) or wheel weights whenever advised in the instructions manual.
- Pay attention when using the grass catcher and attachments that can alter the stability of the machine, especially on slopes.
- Always keep hands and feet away from the cutting means, when starting and when using the machine.
- Attention: the cutting means will continue to rotate for a few seconds after disengagement or after you have switched off the engine.
- Pay attention to cutting-means assemblies with more than one cutting means, as a rotating cutting means can trigger the rotation of the others.
- Keep away from the discharge opening.
- Do not touch the engine parts which heat up during use. Burns hazard.
- To avoid the risk of fire, do not leave the machine standing in high grass with the engine running.

 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.

Use limitations


- Never operate the machine with guards damaged, missing or incorrectly assembled (grass catcher, side discharge guards rear discharge 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/microswitches installed.
- 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.
- The machine has not been approved for use on public roads. It must be used (as indicated by the highway code) in private areas closed to traffic.

2.4 MAINTENANCE, STORAGE

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

Maintenance

- Never use the machine with worn or damaged parts. Faulty or worn-out parts must always be replaced and never repaired.
- To reduce the risk of fire, regularly check the machine for oil and/or fuel leaks.
- Be careful during adjustment of the machine to prevent entrapment of the fingers between moving parts of the cutting means and fixed parts of the machine.

 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 while 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).
- 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.
- Scrupulously comply with local regulations for the disposal of waste materials
- When the machine is withdrawn from service, do not dump it in the environment, but take it to a waste disposal facility in accordance with the local regulations in force.

3. GETTING TO KNOW THE MACHINE

3.1 DESCRIPTION OF THE MACHINE AND PLANNED USE

This machine is a ride-on lawn mower with seated operator.

The machine is equipped with an engine which drives a cutting unit protected by a casing, as well as a transmission unit that moves the machine. This machine is fitted with rear traction.

The rear axle can also be fitted with:

- mechanical drive with 5 forward gears and 1 reverse gear.
- hydrostatic drive with infinite ("Hydro") forward and reverse gears.

The operator is able to operate the machine and use the main controls, always seated in the operator's position.

The safety devices installed on the machine will disengage the engine and cutting means in a couple of seconds (par. 6.2.2).

3.1.1 Intended use

This machine was designed and built to cut grass.

Generally speaking this machine can:

- MP 84 / MP 98 Series can:

1. mow the grass and collect it in the grass catcher
 2. mow the grass and discharge it on the ground from the rear section
 3. mow, chop and deposit the grass on the ground (mulching effect).
- SD 98 / 108 Series can:
4. mow the grass and discharge it from the side
 5. mow, chop and deposit the grass on the ground (mulching effect).

The use of special attachments provided for by the Manufacturer as original equipment or which may be purchased separately, allows this work to be done in various operating modes, illustrated in this manual or the instructions that accompany the single attachments. Likewise, the intended use can be extended to include other functions by applying supplementary attachments (if provided for by the Manufacturer), abiding by the restrictions and conditions indicated in the instructions accompanying the attachment.

3.1.2 Improper use

- Any other usage not in keeping with the afore-mentioned ones may be hazardous and harm persons and/or damage things. Examples of improper use may include, but are not limited to:
 - allowing children, animals or other passengers to ride on the machine as they could fall off and injure themselves or compromise safe driving by the operator;
 - towing or pushing loads without the use of the specified attachment for towing;
 - using the machine for riding over unstable, slippery, icy, stony, rough, marshy ground or puddles that do not allow the consistency of the ground to be assessed;
 - using the cutting means on surfaces other than grass;
 - using of the machine for leaf or debris collection.

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

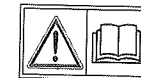
3.1.3 User types

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

IMPORTANT The machine must be used by one operator.

3.2 SAFETY SIGNS

The machine has various symbols on it (fig. 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: Read the instructions before operating the machine.



Warning: Disconnect the key and read the instructions before carrying out any maintenance or repair work.



Danger! Ejected objects: Do not operate without either the rear discharge guard or the grass catcher being in place. (for models with rear collection only)



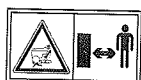
Danger! Ejected objects: do not operate without side discharge chute in place. (for models with side discharge only)



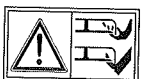
Danger! Ejected objects: Keep bystanders at a safe distance



Danger! Machine rollover: Do not use this machine on slopes greater than 10°



Danger! Dismemberment: Make sure that children stay clear of the machine all the time when engine is running



Cutting hazard. Cutting means in motion. Do not put hands or feet near or under the opening of the cutting means housing.



Warning! Keep away from hot surfaces.



When using the towing kit, do not exceed the recommended loads stated on the label and follow the safety instructions.

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

3.3 IDENTIFICATION LABEL

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

1. Acoustic power level
2. CE Conformity marking
3. Year of manufacture
4. Operating engine power and speed
5. Machine model
6. Type of machine
7. Serial number
8. Weight in kg
9. Name and address of Manufacturer
10. Type of transmission
11. Article code

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 authorized service workshop.

IMPORTANT The example of the Declaration of Conformity is provided on the last pages of the manual.


3.4 MAIN COMPONENTS

The machine is composed of a series of main components that have the following functions (fig.1):


- A. **Cutting-means assembly:** this is the assembly comprising the casing that houses the rotating cutting means, and the cutting means.
- B. **Cutting means:** these are what cut the grass; the fins at the ends help convey the cut grass towards the discharge chute.
- C. **Side discharge chute:** a safety device to prevent objects drawn up by the cutting means from being hurled by the machine (for side discharge models only).
- D. **Discharge chute:** this is the part connecting the cutting-means assembly to the grass catcher (for models with rear collector only).
- E. **Grass catcher:** as well as collecting the grass cuttings, this is also a safety element that stops any objects drawn up by the cutting devices from being hurled away from the machine (for rear collection models only).

- F. **Rear discharge guard** (available upon request): this can be fitted in place of the grass catcher and prevents objects from being drawn up by the cutting means and hurled away from the machine. (for rear collection models only).
- G. **Driving seat:** this is where the machine operator sits. It has a sensor connected to safety devices for detecting the presence of the operator.
- H. **Battery:** provides the energy for starting the engine. Its specifications and regulations for use are described in a specific manual.
- I. **Engine:** this moves the cutting means and drives the wheels. Its specifications and regulations for use are described in a specific manual.
- J. **Front bumper:** this protects the front section of the machine.
- K. **Steering wheel:** turns the front wheels.

4. ASSEMBLY

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

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
1	Steering wheel
2	Dashboard cover and steering wheel assembly parts
3	Driving seat
4	Battery
5	Front bumpers
6	Anti-chipping wheels
7	Grass catcher with relative assembly screws and instructions (for models with rear collection only)

8	Lower part of the rear plate, the grass catcher brackets and attachments necessary for completing and assembly (for rear collection models only)
9	Side discharge chute (for models with side discharge only)
10	Cutting-means assembly side reinforcements (for side discharge models only, if foreseen).
11	Envelope containing: - the instruction manuals and documents - driving seat assembly screws - side discharge chute assembly fittings (for models with side discharge only) - the connection screws for the battery cables - 2 starter keys - 1 spare 10 A fuse

4.1.1 Unpacking

1. Cautiously open the packaging, paying attention not to lose components.
 2. Consult the documentation in the box, including these instructions.
 3. Remove all the unassembled parts from the box.
 4. Remove the machine from the packaging taking the following precautions:
 - move the cutting-means assembly to its maximum height (par. 5.10) to protect it against damage when the machine is lifted off the base pallet;
 - Lift the machine off the base pallet.
-
 * For hydrostatic drive models, move
 * the rear drive release lever to the
 * locked position (par. 5.13).
 *

4.2 STEERING WHEEL ASSEMBLY

1. Put the machine on a flat surface and straighten the front wheels.
2. Mount the hub (fig. 3.A) on the shaft (fig. 3.B), making sure that the plug (fig. 3.C) is correctly fitted into the hub seat.
3. Fit the dashboard cover (fig. 3.D) clicking the seven fasteners into place.
4. Fit the steering wheel (fig. 3.E) onto the hub (fig. 3.A) with the spokes directed towards the seat.
- 5a. **For type "I" steering wheel only**
 - Fit the spacer (fig. 3.F) and fasten the steering wheel in place using the screws supplied (fig. 3.G) in the indicated order.
- 5b. **For type "II" steering wheel only** - Fasten the steering wheel in place using the screws (fig. 3.F, 3.G) supplied, in the indicated order.

6. Fit the steering wheel cover (fig. 3.H) by clicking the fasteners into place.

4.3 SEAT ASSEMBLY

Fit the seat (fig. 4.A) onto the plate (fig. 4.B) using the screws (fig. 4.C).

4.4 MOUNTING AND CONNECTING THE BATTERY

The battery (fig. 5.A) is housed under the seat and secured by a spring (fig. 5.B).

1. First connect the red wire (fig. 5.C) to the positive pole (+) and then the black wire (fig. 5.D) to the negative pole (-), using the screws supplied as shown.
2. Apply silicone grease to the terminals and check that the protective cap for the red wire (fig. 5.E) is in place.

IMPORTANT Always fully charge the battery according to the instructions in the battery booklet.

IMPORTANT To prevent the safety device in the electronic circuit board from cutting in, never start the engine until the battery is fully charged!

4.5 MOUNTING THE REAR BUMPER

1a. **For type "I" bumpers only** - Mount the front bumper (fig. 6.A) on the bottom of the frame (fig. 6.B) using the four screws (fig. 6.C).

- 1b. **For type "II" bumpers only**
1. Fit the two brackets (fig. 6.A) and (fig. 6.B) to the bottom of the frame (fig. 6.C) following the direction of assembly indicated in the figure: R= right; L= left.
 2. fully tighten the screws (fig. 6.D).
 3. Attach the front bumper (fig. 6.E) to the brackets (fig. 6.A) and (fig. 6.B) using the screws (fig. 6.F) and nuts (fig. 6.G).

4.6 SIDE DISCHARGE CHUTE ASSEMBLY (FOR MODELS WITH SIDE DISCHARGE ONLY)

1. From the inside of the side discharge chute (fig. 7.A), fit the spring (fig. 7.B) by inserting the terminal (fig. 7.B.1) into the hole and turning it so that both the spring (fig. 7.B) and the terminal (fig. 7.B.2) are securely positioned in their seatings.
2. Position the side discharge chute (fig. 7.A) in line with the cutting-means assembly brackets (fig. 7.C). Using a screwdriver, turn the second terminal

- (fig. 7.B.2) of the spring (fig. 7.B) to bring it outside the side discharge chute.
- Fit the pin (fig. 7.D) in the holes on the brackets (fig. 7.C) and on the side discharge chute, so that it passes through the coils of the spring (fig. 7.B) and the drilled end comes out of the inner most bracket.
 - Insert the cotter pin (fig. 7.E) in the pin (fig. 7.D) hole (fig. D.1) and rotate the pin until it is possible to bend the two ends (fig. 7.E.1) of the cotter pin, (with the aid of a pair of pliers), so it cannot slide out and cause the pin to fall out (fig. 7.D).

⚠ Check that the spring works correctly and keep the side discharge chute securely lowered. Make sure that the pin is fitted properly to prevent it from falling out accidentally.

4.7 MOUNTING THE CUTTING-MEANS ASSEMBLY SIDE REINFORCEMENTS (FOR SIDE DISCHARGE MODELS ONLY, IF FORESEEN).

Complete the mounting of the cutting-means assembly by fitting the side reinforcements on the cutting-means assembly profile using the screws supplied (fig. 8)

4.8 REAR PLATE ASSEMBLY AND COMPLETION (FOR REAR COLLECTION MODELS ONLY)

- Assemble the two lower brackets (fig. 9.A) and (fig. 9.B), following the assembly direction as shown in the illustration, and fasten them with the screws (fig. 9.C) and nuts (fig. 9.D), tightening them completely.
- Remove the two screws (fig. 9.H), which will be used later.
- Assemble the lower part (fig. 9.E) of the rear plate and fasten it to the lower brackets with the screws (fig. 9.F) and bolts (fig. 9.G), without tightening them completely.
- Finish fastening the lower part (fig. 9.E) of the rear plate, completely tightening the two central screws (fig. 9.H) that you previously removed and the four upper screws (fig. 9.I).
- Fully tighten the two bottom nuts (fig. 9.G).
- Insert the lever (fig. 9.J) of the "grass catcher full" indicator into its seat (fig. 9.K) and push it down until you hear a click.
- Assemble the two grass catcher brackets (fig. 9.L) and (fig. 9.M), following the assembly direction as shown in the illustration, and fasten them with the

screws (fig. 9.N) and snap washers (fig. 9.O), tightening them firmly.

5. CONTROLS

5.1 KEY IGNITION SWITCH

The key turns the machine and headlamps (if fitted) On and Off.

It has four different positions (fig. 10.A):

- Stop position.** The machine turns off immediately.
- Headlights On position (if fitted);** After turning the engine on, turn the lights on by turning the key to this position. To switch them off, turn the key to On.
- On position.** All services are enabled..
- Start position.** Switch on the starter motor to start the machine. If you release the key on start it will automatically return to On.

5.2 THROTTLE CONTROL

Regulates the engine's r.p.m.

There are two types of throttle control according to the engine type:

- Type "I" with separate Choke command** (Fig. 10.E + Fig. 10.E.1)
- Type "II" (Fig. 10.E)**

The positions indicated correspond to:

- Choke Command - Cold start.** Used to turn on the engine when cold. The «CHOKE» position enriches the mixture so it must only be used for the time necessary for cold starts.
- Maximum engine speed.** To be used always when starting the machine, while it is On and during grass cutting operations.
- Minimum engine speed.** Used when the machine is sufficiently warm during stationary periods of operation.

NOTE When moving from one area to another, put the lever in a position between «tortoise» and «hare».

5.3 PARKING BRAKE LEVER

This lever stops the machine from moving when it has been parked.

This lever has two positions (fig. 10.D), corresponding to:

- Brake disengaged.** Press the pedal to disengage the parking brake (fig. 10.1). The lever returns to the brake disengaged position.
- Brake engaged.** Press the pedal all the way down to engage the parking brake (fig. 10.1) and shift the lever to the brake engaged position. When you take your foot off the pedal it will be blocked in the lowered position.

5.4 CLUTCH / BRAKE PEDAL (MECHANICAL DRIVE)

This pedal has a double function (fig. 10.1):

- during the first part of its travel it acts as a clutch, engaging and disengaging drive to the wheels.
- in the second part it works the brake on the rear wheels.

IMPORTANT Do not keep the pedal half way between clutch engagement or disengagement, as this can cause overheating and damage the transmission belt.

NOTE When the machine is in movement, keep your foot off the pedal.

5.5 SPEED CHANGE LEVER (MECHANICAL DRIVE)

This lever has seven positions (fig. 10.K):

- 5 forward gears
 - Neutral «N»
 - Reverse «R»
- ⚠ Reverse must only be engaged when the machine has stopped.**

To change gear, press the pedal halfway down (Fig. 10.1) and move the lever according to the indications on the label.

5.6 BRAKE PEDAL (HYDROSTATIC DRIVE)

This pedal works the brake on the rear wheels (fig. 10.I)

5.7 DRIVE PEDAL (HYDROSTATIC DRIVE)

This pedal engages drive in the wheels and controls the machine's forward and reverse speed (fig. 10.J):



- Forward drive gear.** To insert the forward drive gear, press the front pedal with the tip of your foot. Increasing the pressure on the pedal progressively increases the speed of the machine.



- Reverse gear.** Reverse gear is engaged by pressing the rear pedal with your heel.
- ⚠ Reverse must only be engaged when the machine has stopped.**

- Neutral position.** The pedal automatically goes into neutral position when released.

NOTE If the drive pedal is used, whether forwards or for reverse, when the parking brake (fig. 10.D) is engaged, the engine stops.

5.8 HYDROSTATIC TRANSMISSION DISENGAGEMENT LEVER (HYDROSTATIC TRANSMISSION)

This lever has two positions, as shown on the plate (fig. 10.L):



- Drive engaged :** for all uses, when moving and during cutting.



- Drive disengaged :** this makes it much easier to move the machine by hand, with the engine turned off.

IMPORTANT To avoid damaging the transmission unit, this operation must be carried out only when the engine has stopped with the pedal (fig. 10.J) at neutral position.

5.9 CUTTING MEANS ENGAGE AND DISENGAGE FUNCTIONS

The mushroom switch allows you to engage the cutting means using an electromagnetic clutch (fig. 10.B):



1. Cutting means engaged.
Mushroom switch pulled



2. Cutting means disengaged.
Mushroom switch engaged.
On disengaging the cutting means, a brake is simultaneously activated which stops their rotation within a few seconds.

NOTE If you engage the cutting means without taking the necessary safety precautions, the engine shuts down and cannot be restarted (see par. 6.2.2)

5.10 REVERSE GEAR CUTTING CONSENT BUTTON



By pressing and holding this button (fig. 10.F), it is possible to switch to reverse gear with the cutting means engaged without causing the engine to stop.

5.11 CUTTING HEIGHT ADJUSTER LEVER

Use this lever to raise and lower the cutting-means assembly to one of the 7 different cutting heights (fig. 10.G).



The seven positions for this lever, shown as «1» to «7» on the label, correspond to various cutting heights between 3 and 8 cm.



To go from one position to another, move the lever sideways and put it back in one of the stop notches.



5.12 ACOUSTIC ALARM INDICATOR LIGHT AND DEVICE (FOR REAR COLLECTION MODELS ONLY)

- This light (fig. 10.C) comes on when the key (fig. 10.A) is in the "ON" position and stays on while the machine is running.
- When it flashes, it means that it is not ready to be started (see par. 6.2.2).
- The sound warning signals that the grass catcher is full (see par. 6.5.5).

5.13 GRASS CATCHER TIPPING LEVER (IF FORESEEN, FOR REAR COLLECTION MODELS ONLY)

This pull-out lever tips and empties the grass catcher. This means less work for the operator (fig. 10.H).

6. USING THE MACHINE

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

6.1 PREPARATION

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

6.1.1 Filling with oil and fuel

IMPORTANT The machine is supplied without engine oil or fuel.

Before using the machine check for fuel and the oil level (par. 7.2, par. 7.3). For refuelling and oil top-up methods and precautionsent follow the instructions given in (par. 7.2, par. 7.3) and in the engine handbook.

6.1.2 Seat adjustment

To change the seat position, loosen the four fixing bolts (fig. 11.A) and slide it along the slots. Once you have found the right position, tighten the four screws (fig. 11.A) thoroughly.

6.1.3 Tyre pressure

Having the right tyre pressure is the main condition for ensuring that the cutting-means assembly is horizontal and mows evenly.

1. Unscrew the valve caps
2. Connect a compressed air line with a gauge to the valves (fig. 12)
3. Adjust the pressure according to the values indicated in the "Technical Data" chart.

6.1.4 Preparing the machine before starting work

NOTE This machine can be used to mow lawns in a number of different ways; before starting work, prepare the machine based on how the lawn is to be mowed.

a. Prepare the machine for side cutting and discharge of the grass onto the floor (for models with side discharge only)

- Always check that the inner spring of the chute (fig. 13.A) works properly, whilst keeping it securely lowered.

b. Preparation for grass cutting and collection in the grass catcher (for rear collection models only)

- Fasten the grass catcher (fig. 14.A) onto the supports (fig. 14.B) and centre it up with the rear plate. Centring is ensured by using the right bracket as lateral support.
- Make sure that the lower pipe of the grass catcher opening is attached to the pawl (fig. 14.C).

c. Prepare the machine for rear cutting and discharge of the grass onto the floor (for models with rear collection only)

- If you decide to work without the grass catcher, a rear discharge guard kit (fig. 15; chap. 15.5) is available upon request. This has to be attached to the rear plate as indicated in the instructions.

d. Preparation for mowing and mulching of grass

- If you decide to mow the grass, mulching it and leaving it on the grass, a "mulching" kit is available upon request (chap. 15.1). This has to be attached to the rear plate as indicated in the instructions.

6.1.5 Positioning the anti-scalp wheels

The anti-chipping wheels are used to reduce the risk of tearing up sections of lawn, which

can occur when the edge of the cutting-means assembly drags over irregular ground. Position the wheels as indicated (par. 7.4).

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.

6.2.1 General safety check

Object	Result
Battery	No damage to the casing, cover or terminals
Rear discharge guard, grass catcher	Good condition. No damage. Properly installed.
Side discharge guard, suction grid	Good condition. No damage. Properly installed.
Fuel lines and connections.	No leaks.
Electrical cables.	All insulation intact. No mechanical damage.
Oil lines	No leaks. No damage.
Drive the machine forwards and backwards, shift to neutral / release the drive pedal (par. 5.5; par. 5.7)	The machine slows down and stops
Press the brake pedal (par. 5.4; par. 5.6)	The machine stops
Test driving	No abnormal vibrations. No abnormal sound
Safety devices	Proceed as indicated in par. 6.2.2

6.2.2 Control of safety devices

The safety devices work in two ways:

- they prevent the engine from starting if all the safety requirements have not been met;
- by stopping the engine if even just one of the safety requirements is lacking.

Action	Result
1. gear in "neutral"; 2. cutting means disengaged; 3. operator seated.	The engine starts

Action	Result
the operator leaves his seat	The engine stops
the grass catcher is lifted or the rear discharge guard removed without disengaging the cutting means (for rear collection models only)	The engine stops
the parking brake is engaged without disengaging the cutting means	The engine stops
the speed change is activated or the drive pedal with the parking brake engaged	The engine stops
the reverse gear is engaged with the cutting means engaged, without pressing the consent button (par. 5.9)	The engine stops

⚠ If any of the results fails to match the indications provided in the tables, do not use the machine! Contact a service centre to have it checked and repaired if necessary.

IMPORTANT Always bear in mind that the safety devices prevent the engine from starting if safety requirements have not been met. In these cases, once the start consent has been reinstated, the ignition key (fig. 10.A) must first be turned back to Off before the engine can be restarted.

6.3 USING ON SLOPES

Comply with the limits indicated in the "Technical Data" Tables ad in "fig. 18" regardless of the mowing direction.

Remember there is no such thing as a "safe" slope. Driving on grass slopes requires particular care. To prevent overturning or loss of control over the machine:

- Never mow across the face of the slope. Lawns on a slope have to be mowed moving up and down and never across them. When changing direction, take great care that the wheels facing the slope do not hit any obstacles (such as stones, branches, roots, etc.) that may cause the machine to slide sideways, tip over or make you lose control.
- Do not stop or start suddenly when going up or downhill;
- Shift to drive gear very gently paying particular attention to prevent the machine from tipping up.
- Reduce speed:

- before changing direction and during tight turns
- before facing a slope, particularly downhill
- Never switch to reverse gear to decrease speed when going downhill: this could cause loss of control of the machine, especially on slippery ground.
- Always engage the parking brake before leaving the machine at a standstill and unattended.

- **For models with mechanical drive only** Never ride the machine on slopes in neutral or with the clutch out! Always shift into a low gear before leaving the machine at a standstill and unattended.
- **For models with hydrostatic drive only:** Drive down slopes with your foot off the drive pedal to use the braking effect of the hydrostatic transmission when the transmission is not engaged.

6.4 STARTUP

1. Open the fuel tap (fig. 19.A) (if provided).
2. Sit in the operator's position.
3. Put the drive into neutral («N») (par. 5.5; par. 5.7).
4. Disengage the cutting means (par. 5.8).
5. Engage the parking brake (par. 5.3).
6. Shift the throttle control to maximum "hare" speed position (par. 5.2).
7. **If cold starting:** engage the choke (par. 5.2 / par. 5.2.1)
8. Insert the ignition key and turn to On to make electrical contact, then turn it to Start to start the engine.
9. Release the ignition key once the engine has started.
10. **If cold starting:** as soon as the engine ticks over regularly:
 - 10a. Disengage the choke (par. 5.2 type "I"), shift the throttle control to maximum "hare" speed position.
 - 10b. Disengage the choke (par. 5.2, type "I").
11. When the engine has started, shift the throttle control to the minimum «tortoise» speed position.

NOTE Using the choke when the engine is already warm can foul the spark plugs and cause the engine to run erratically.

NOTE If there are engine starting problems, do not insist as you can risk running the battery flat and flooding the engine. Turn the key to the Off position, wait for a few seconds and then repeat the operation. If

the malfunction persists, refer to the engine manual and chapter «14» in this manual.

6.5 OPERATION

6.5.1 Forward gear and riding without mowing

When moving the machine:

- disengage the cutting means (par. 5.8);
- bring the cutting-means assembly to the highest position (position «7»);
- shift the throttle control to a point midway between the «tortoise» and «hare» speed positions.
- **For models with mechanical drive only:**
 1. Press the pedal all the way down (par. 5.4) and shift the gear lever to 1st gear (par. 5.5).
 2. Hold the pedal down (fig. 10.1) then disengage the parking brake (par. 5.3).
 3. Slowly release the pedal which will turn from «brake» to «clutch» mode, thus operating the rear wheels (par. 5.4).

⚠ The pedal has to be released gradually, as a sudden engagement may cause the vehicle to tip over and the driver to lose control.

4. Gradually reach the desired speed using the throttle and gear lever. To change gear, press the clutch halfway down (par. 5.4; par. 5.5).

- **For models with hydrostatic drive only:**
 1. Disengage the parking brake and release the brake pedal (par. 5.6).
 2. Press the drive pedal (par. 5.7) in the "forward drive" direction and reach the required speed by gradually increasing pressure on the pedal and working the throttle.

⚠ Drive can only be engaged following the procedure illustrated (par. 5.7 to prevent sudden engagement which may cause the vehicle to tip over and the driver to lose control, especially on slopes.

6.5.2 Braking

First reduce the machine's speed by reducing the engine's r.p.m., and then press the brake pedal (par. 5.4; par. 5.6) to slow down the machine until it stops.

For models with hydrostatic drive only:
The machine already slows down considerably by just releasing the drive pedal (par. 5.7)

6.5.3 Reverse gear

IMPORTANT Reverse must be engaged when the machine has stopped.

For models with mechanical drive only:

1. Press the pedal (par. 5.4) until the machine comes to a stop;
2. Shift the gear lever to "R" reverse (par. 5.5).
3. Gradually release the pedal to engage the clutch and then begin moving in reverse.

For models with hydrostatic drive only:

1. Press the pedal (par. 5.6) until the machine comes to a stop;
2. start reversing by pressing the drive pedal in the "R" direction (par. 5.7).

6.5.4 Grass cutting

To operate with the machine proceed as described below:

1. shift the throttle to the maximum speed position ("hare"); this position is always used when using the machine;
2. bring the cutting-means assembly to the highest position;
3. engage the cutting means (par. 5.8) only on grass lawns; avoid engaging them on stony ground or when the grass is very high;
4. regulate the forward speed and the cutting height (par. 5.10) considering the conditions of the lawn (the height, density and dampness of the grass).
5. start moving forwards on the grass very slowly and with utmost caution, as already described;

IMPORTANT To proceed in reverse gear with the cutting means engaged, it is necessary to press and hold the consent button (par. 5.9) so as not to cause the engine to stop.

Lower the speed whenever you note a drop in engine speed, since a forward speed that is too fast compared to the amount of grass being cut will never mow the grass well.

Disengage the cutting means and move the cutting-means assembly to the highest position:

- When moving between work areas
- When driving on grass free surfaces

- Every time it is necessary to overcome an obstacle.

6.5.5 Suggestions for maintaining a nice lawn

1. To keep a lawn green and soft with a good appearance, it should be cut regularly. A lawn can be composed of different types of grass. If the lawn is cut frequently, grass and roots grow more vigorously, forming a solid grassy bed. If the lawn is cut is less frequently, higher grass and weeds start growing (clover and daisies, etc.).
2. It is always better to cut the grass when dry.
3. The cutting means must be in good condition and well sharpened so that the grass is cut straight without a ragged edge that leads to yellowing at the ends.
4. The engine must run at full speed, both to ensure a sharp cut of the grass and to get the necessary thrust to push the cuttings through the collector channel.
5. The frequency of mowing should be in relation to the rate of growth of the grass, which should not be left to grow too much between one cut and the next.
6. During hot and dry periods, the grass should be cut a little higher to prevent the ground from drying out.
7. The best height of the grass on a well-kept lawn is approx. 4-5 cm. and with one mowing, you do not need to remove more than a third of the total height. If the grass is very tall, it should be cut twice in a twenty-four hour period. The first time with the cutting means at maximum cutting height, possibly reducing the cutting width and the second cut at the height desired (fig. 20).
8. The appearance of the lawn will improve if you alternate the cutting in both directions (fig. 21).
9. If the discharge chute tends to get blocked with grass, you should reduce the forward speed as it may be too high for the condition of the grass. If the problem persists, the probable causes are either badly sharpened cutting means or deformed fins.
10. Be very careful when mowing near bushes or kerbs as these could distort the horizontal position of the cutting-means assembly and damage its edge as well as the cutting means.

6.5.6 Emptying the grass catcher (for rear collection models only)

NOTE The emptying of the grass catcher can only be done with the cutting means disengaged, otherwise the engine stops.

- Do not let the grass catcher become too full as this may block the collection channel.
- When the grass catcher is full you will hear a warning sound:
 1. disengage the cutting means (par. 5.8) and the audible signal will stop;
 2. shift the throttle control to minimum "tortoise" speed position (par. 5.5);
 3. stop moving forward and switch to neutral (par. 5.5; par. 5.7);
 4. engage the parking brake;
 5. stop the engine;
 6. pull out the lever (fig. 22.A - if fitted) or grasp the rear handle (fig. 22.A1) and tip up the grass catcher to empty it;
 7. close up the grass catcher so that it hooks onto the pawl (fig. 22.B).

6.5.7 Cleaning the discharge chute (for rear collection models only)

- Cutting very tall or wet grass, particularly at excessively high speed, can clog up the discharge chute. If it clogs, follow the instructions provided in chap. 7.4.2.

6.5.8 Mowing completed

When mowing has been completed:

1. disengage the cutting means;
2. decrease the engine's r.p.m.
3. drive back with the cutting-means assembly in its highest position:

6.6 STOP

To stop the machine:

1. shift the throttle lever to minimum "tortoise" speed position

⚠ To avoid backfire, leave the throttle in the minimum "tortoise" speed position for 20 seconds before switching off the engine.

2. switch off the engine by turning the ignition key to Off;
3. with the engine turned off, close the fuel tap (fig. 23.A) (if provided).
4. remove the key from the ignition

IMPORTANT To keep the battery charged, do not leave the ignition key

in the «on» or «headlights on» position when the engine is not running.

⚠ The engine may be very warm immediately after it is shut off. Do not touch the exhaust or adjacent parts. This can cause burn injuries.

6.7 AFTER OPERATION

1. Allow the engine to cool before storing in an enclosed space.
2. Clean (par. 7.4).
3. Lower the cutting-means assembly, shift to neutral, engage the parking brake, turn off the engine and remove the ignition key (checking that all moving parts are completely stationary):
 - whenever the machine is left unattended, the operator dismounts from the driving seat, or parks the machine;

7. ROUTINE MAINTENANCE

7.1 GENERAL INFORMATION

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

⚠ Before conducting any inspections, cleaning or maintenance/adjustment interventions on the machine:

- disengage the cutting means;
 - shift into neutral;
 - engage the parking brake;
 - stop the engine;
 - remove the key, (never leave the keys in the ignition or within reach of children or unauthorised persons);
 - make sure that all moving parts have come to a complete stop;
 - read the relevant instructions;
 - Use suitable clothing, protective gloves and goggles
- The frequency and types of maintenance are summarised in the "Maintenance Table". The table will help you maintain your machine's safety and performance. It lists the main maintenance tasks and how often they need to be performed. Carry out the relevant task as soon as it is scheduled to be performed.
- The use of non-genuine and/or incorrectly assembled spare parts and attachments could adversely affect machine operation

and safety. The manufacturer shall decline all liability in the event of injuries or damages caused by such parts.

- Genuine spare parts are supplied by authorized assistance workshops and dealers.

7.2 REFUELLING / EMPTYING THE FUEL TANK

NOTE The type of fuel to use is given in the engine manual.

IMPORTANT The machine is delivered to the client without fuel. Follow all the instructions in the engine manual.

7.2.1 Refuelling

To refuel:

1. Unscrew the tank closure cap and remove it (fig. 24).
2. Insert the funnel (fig. 24).
3. Refuel being careful not to completely fill the tank.
4. Remove the funnel.
5. Close the fuel cap securely after refuelling and clean away any spills.

IMPORTANT Do not drip petrol onto the plastic parts to avoid ruining them. In the event of accidental leaks, rinse immediately with water. The warranty does not cover for damage to plastic parts of the bodywork or the engine caused by petrol.

7.2.2 Emptying the fuel tank

NOTE Fuel is perishable and should not remain in the tank for more than 30 days. Empty the fuel tank before storing the machine for long periods of time (chap. 9).

⚠ Allow the engine to cool before emptying the fuel tank.

1. Place the machine on a flat surface, in the open air.
2. Place a suitable container under the drain tube (fig. 26.A).
3. Disconnect the tube (fig. 26.A) installed on the fuel filter inlet (fig. 26.B).
4. Open the fuel tap (if provided)
5. Collect the fuel in a suitable container.
6. Reconnect the tube (fig. 26.A) making sure you position the clamp properly (fig. 26.C).
7. Close the fuel tap (if provided).

⚠ The next time the machine is used, check that there are no fuel leaks from the tubes, fuel stopcock or carburettor.

7.3 CHECK, TOP UP, DRAINING OF ENGINE OIL

NOTE The type of oil to use is given in the engine manual.

IMPORTANT The machine is delivered to the client without engine oil.

IMPORTANT Follow all the instructions in the engine manual.

7.3.1 Check/top-up

⚠ Always check the oil level before use.

- Check the oil level: according to the instructions in the engine manual, this must be between the MIN and MAX marks on the dipstick (fig. 25).

⚠ Do not overfill as this could cause the engine to overheat. If the oil level exceeds the "MAX" mark, drain until the correct level is achieved.

7.3.2 Draining

⚠ The oil may be very hot if removed just after the engine has been switched off. Consequently allow the engine to cool down for a few minutes before proceeding to drain off the oil.

Replace the engine oil according to the frequency indicated in the engine instruction manual.

Proceed as follows:

• Type "I":

1. Place the machine on a flat surface.
2. Place a suitable container under the extension tube (fig. 27.A).
3. Hold the extension tube (fig. 27.A) firmly in place and unscrew the drain plug (fig. 27.B).
4. Collect the oil in a suitable vessel.
5. Replace the drain plug (fig. 27.B) making sure that the gasket is in the right position (fig. 27.C).
6. Fully tighten holding the extension tube firmly in place (fig. 27.A).
7. Clean up any spills.

• Type "II":

1. Unscrew the topping up cap (fig. 27.A).

2. Fit the tube (fig. 27.B) onto the syringe (fig. 27.C) and insert it as far as possible into the hole.
3. Using the syringe (fig. 27.C), suck up all the engine oil, bearing in mind that you need to repeat this operation a few times before all the oil is removed.

IMPORTANT Hand the spent oil over to a disposal facility in accordance with local provisions.

7.4 ANTI-CHIPPING WHEELS

The different heights of the wheels allow you to maintain a safe distance "H" between the cutting-means assembly and the ground (fig. 16.A, fig. 17.A). Adjust the position of the anti-chipping wheels according to how irregular the ground is.

⚠ This should always be performed on both wheels, positioning them at the same height WITH THE ENGINE OFF AND CUTTING MEANS DISENGAGED.

a. for models with side discharge only

To change the position:

1. unscrew and remove the screw (fig. 16.B)
2. reposition the wheel (fig. 16.A) with the spacer (fig. 16.C) inside the hole at the desired distance
3. fully tighten the screw (fig. 16.B) onto the nut (fig. 16.D).

b. for models with rear collection only

To change the position:

1. unscrew the nut (fig. 17.B) and extract the pin (fig. 17.C).
2. reposition the wheel (fig. 17.A) in the desired position
3. reassemble the pin (fig. 17.C), making sure the pin (fig. 17.C) head is facing toward the inside of the machine
4. then tighten the nut completely (fig. 17.B).

7.5 CLEANING

Clean thoroughly following the instructions below every time it is used.

7.5.1 Cleaning the machine

- Clean the outside of the machine washing the plastic parts of the bodywork with a damp sponge using water and detergent, taking care not to wet the engine, the electrical parts or the electronic circuit board located under the dashboard.

- To reduce fire hazards, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.

IMPORTANT Never use hose-nozzles or harsh detergents for cleaning the body and engine!

7.5.2 Cleaning the discharge chute (for rear collection models only)

If the discharge chute is clogged:

1. remove the grass catcher or the rear discharge guard;
2. remove the grass cuttings; you can reach them from the channel discharge opening.

7.5.3 Cleaning the grass catcher (for rear collection models only)

1. Empty the grass catcher
2. Shake it to remove grass cuttings and soil residue
3. Replace the grass catcher and clean the interior of the cutting-means assembly (par. 7.4.4-a), now remove the grass catcher, empty and rinse it, then place it where it can dry quickly.

7.5.4 Cleaning the cutting-means assembly

Clean the cutting-means assembly thoroughly to remove any grass remains or debris.

⚠ Keep people or animals away from the surrounding area when cleaning the cutting-means assembly.

a. Cleaning the interiors

When washing the inside of the cutting-means assembly and the discharge chute, the machine must be on firm ground with:

- the grass catcher or the rear discharge guard mounted in place (for rear collection models only)
- the side discharge chute mounted (for models with side discharge only);
- the operator seated;
- the cutting-means assembly in position «1»;
- the engine running
- the transmission in neutral
- the cutting means engaged

- Connect a water hose to each of the pipe fittings (fig. 28.A; fig. 29.A) one at a time and run water through each one for a few minutes, with the cutting means moving.

IMPORTANT In order not to compromise the efficiency of the electromagnetic clutch:

- do not let the clutch come into contact with oil;
- do not spray pressurised water directly on the clutch unit;
- do not clean the clutch with petrol.

b. Cleaning the exterior

⚠ Do not let debris and dried grass accumulate in the upper part of the cutting-means assembly in order to maintain maximum machine efficiency and safety levels.

To clean the upper part of the cutting-means assembly:

- lower the cutting-means assembly completely (position «1»);
- blow a jet of compressed air through the right and left guard openings (fig. 28; fig. 29).

7.6 BATTERY

To ensure long life to the battery it is essential to keep it carefully maintained. The machine battery must always be charged:

- before using the machine for the first time after purchase;
- before leaving the machine disused for a long period (over 30 days) (par. 9);
- before starting up the machine after a prolonged period of inactivity.

Carefully read and observe the battery recharging instructions in the booklet provided with the battery. Failure in following the procedure or in charging the battery could permanently damage the battery elements. A flat battery **must** be recharged as soon as possible.

IMPORTANT Recharging must be done using a battery charger at constant voltage. Other recharging systems can irreversibly damage the battery.

- The machine comes with a connector (fig. 30.A) for recharging; this is connected to the corresponding connector for the special maintenance battery-charger supplied (if included) or available on request (par. 15.2).

IMPORTANT This connector must only be used for connection to the maintenance battery-charger indicated by the Manufacturer. For its use:

- follow the instructions given in the relative instructions manual;
- follow the instructions in the battery manual;

7.7 NUTS AND BOLTS

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.

8. EXTRAORDINARY MAINTENANCE

8.1 SAFETY RECOMMENDATIONS

⚠ You must go to a specialized Service Centre or contact your Dealer if the following are malfunctioning:

- the brake
- the cutting means engage and disengage functions
- switching the drive to forward or reverse gears.

8.2 CUTTING-MEANS ASSEMBLY / CUTTING MEANS

8.2.1 Aligning the cutting-means assembly

The cutting-means assembly should be properly adjusted to obtain an evenly mown lawn (fig. 31). If mowing is uneven, check the tyre pressure (par. 6.1.3). If this is not sufficient to achieve an even cut, please contact your Dealer to adjust the alignment of the cutting-means assembly.

8.2.2 Cutting means

A badly sharpened cutting means pulls at the grass and causes the lawn to turn yellow.

⚠ All work on the cutting means (disassembly, sharpening, balancing, repairing, reassembly and/or replacing) are demanding jobs that require special skills as well as special tools. For safety reasons, these jobs are best carried out at a Specialised Centre.

⚠ Make sure damaged, misshapen or worn cutting means are replaced as a whole unit, together with its own screws in place to preserve balance.

IMPORTANT Cutting means should be replaced in pairs, especially when there are marked differences in wear.

IMPORTANT Always use original cutting means bearing the code indicated in the "Technical Data".

Given product evolution, the cutting means listed in the "Technical Data" table may be replaced in time with others having similar interchangeable and operating safety features.

8.3 REPLACING OF FRONT / REAR WHEELS

8.3.1 Preparation

IMPORTANT Use a suitable lifting device, for example a scissor jack.

Before changing the wheels it is necessary to complete some preliminary operations:

- Remove all attachments.
- Position the machine on a solid and even surface that guarantees stability of the machine.
- Engage the parking brake;
- Stop the engine;
- Remove the key from the ignition;
- Position the jack in the lifting position near the wheel to be changed (par. 8.3.2; par. 8.3.3).
- Check that the jack is perfectly perpendicular to the ground.

8.3.2 Choice and positioning of the jack on the rear wheels

Position some wooden wedges (fig. 31.A) to the wheel base (fig. 31.B) to the side of the wheel to be changed (fig. 31.C).

For models with rear collection:

- The maximum possible jack height when closed is 110 mm. (fig. 32).
- Position the jack under the rear plate (fig. 33.A) at 180 mm from the side edge.

For side discharge models:

- The maximum possible jack height when closed is 110 mm. (fig. 34).
- Position the jack under the rear axle, in the point indicated in the diagram (fig. 35.A).

NOTE In this position the jack allows you to only raise the wheel to be changed.

8.3.3 Choice and positioning of the jack on the front wheels

1. Position some wooden wedges (fig. 36.A) to the wheel base (fig. 36.B) behind the wheel to be changed (fig. 36.C).
2. The maximum possible jack height when closed is 110 mm.
3. Position a square 10 x 10 cm wooden wedge (fig. 37.B) on the jack (fig. 37.A).

NOTE The wooden wedge prevents damage to the front axle.

4. Raise the jack so that the wedge rests against the chassis and structural parts (fig. 37.C).

NOTE During this phase use your hand to keep the wedge balanced correctly on the jack.

NOTE In this position the jack allows you to raise the entire front axle.

8.3.4 Changing the wheel

IMPORTANT Make certain the machine remains still and stable during the lifting process. If you notice anything out of the ordinary, lower the jack immediately, check and resolve any problems and lift the machine again.

1. Remove the cover (fig. 38.A).
2. Raise it enough to extract the wheel easily.
3. Using a screwdriver, remove the snap ring (fig. 38.B) and the shoulder washer (fig. 38.C).
4. Remove the wheel to be changed.
5. Coat the axle (fig. 38.D) with grease.
6. Mount the spare wheel.
7. Carefully replace the shoulder washer and snap ring.

IMPORTANT Check that the two rear wheels are the same height (fig. 39.A) and that the difference between the external diameters of the two wheels (fig. 39.B) is no greater than 8-10 mm. On the contrary, to avoid uneven mowing, the cutting-means assembly must be aligned by an authorised service centre.

8.3.5 Repairing or changing tyres

The tyres are "Tubeless" and so all punctures must be repaired by a tyre repairer following the procedures required for this kind of tyre.

8.4 ELECTRONIC CIRCUIT BOARD

The electronic circuit board is a component fitted below the dashboard which manages all machine safety devices.

8.4.1 Electronic circuit board protection device (for rear collection models only)

- The electronic circuit board is located below the dashboard and fitted with a self-setting protection which breaks the circuit if there is a fault or short circuit on the electrical system (chap. 14).

8.4.2 Electronic circuit board protection fuse (for side discharge models only)

- The electronic circuit board is located below the dashboard and fitted with a fuse which breaks the circuit if there is a fault or short circuit on the electrical system (chap. 14).

8.5 REPLACING A FUSE

The machine is fitted with fuses (fig. 40.A) with different capacities and functions. Specifically:

- 10 A fuse = protects the main and power circuits of the electronic circuit board. When it blows, the machine stops and the dashboard light switches off (**for rear discharge models only** (par. 5.11))
- 25 A fuse = protects the battery recharge circuit. When it blows, the battery gradually runs down and the machine will have problems starting.

The fuse capacity is indicated on the fuse.

IMPORTANT A blown fuse must always be replaced by one of the same type and ampere rating, and never with one of another rating.

If you are unable to understand why it has blown, contact Your Dealer.

8.6 REPLACING BULBS

8.6.1 Type "I" - Incandescent light bulbs

- The bulbs (18W) have a bayonet fitting and are installed in the bulb holder which can be taken out by turning it anti-clockwise with pliers (fig. 41).

8.6.2 Type "II" - LED light bulbs

- Loosen the lock nut (fig. 41.A) and remove the connector (fig. 41.B). Remove the LED illuminator (fig. 41.C), secured by screws (fig. 41.D).

8.7 REAR AXLE

- This is a sealed single unit that does not require maintenance. It is permanently lubricated and its lubricant does not need changing or topping up.

9. STORING THE MACHINE

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

1. Wait for the engine to cool
2. Disconnect the battery cables and store it in a cool and dry place.
3. Empty the fuel tank (par. 7.2.2) and follow all the instructions in the engine manual.
4. Clean the machine thoroughly.
5. Check the machine for any damage. If necessary, contact the authorised assistance centre.
6. Store the machine:
 - with the cutting-means assembly lowered
 - in a dry place
 - protected from inclement weather
 - and covered with a sheet where possible (par. 15.4)
 - 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:

- check that there are no fuel leaks from the tubes, fuel stopcock or carburettor.
- prepare the machine as described in chapter "6. Using the machine".

10. HANDLING AND TRANSPORTATION

- When handling the machine, always:
 - disengage the cutting means;
 - bring the cutting-means assembly to the highest position;
 - stop the engine;
- When transporting the machine on a vehicle or trailer, always:
 - use an access ramp of suitable strength, width and length;
 - load the machine with the engine switched off, with the key removed from the ignition, without a driver and pushed by an adequate number of people;
 - close the fuel tap (if provided);
 - lower the cutting-means assembly;
 - engage the parking brake;
 - position it so that it can not cause a hazard for anybody;
 - 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 Authorized Service Centre, which have the necessary knowledge and equipment to ensure that the work is carried out correctly, maintaining the correct degree of safety and the original operating conditions of the machine. Any operations performed in unauthorized centres or by unqualified persons will totally invalidate the Warranty and all obligations and responsibilities of the Manufacturer.

- Only authorized service workshops can carry out guaranteed repairs and maintenance.
- The authorized service workshops only use genuine spare parts. Genuine spare parts and attachments have been designed specifically for machines.
- Non-original parts and attachments are not approved; use of non-original spare parts and attachments will jeopardize the safety of the machine and relieve the Manufacturer from all obligations or liabilities.
- It is advisable to send your machine once a year to an authorized service workshop 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 drive belts, headlights, wheels, blades, safety bolts and wires.
- Normal wear and tear.
- Engines. Engines are covered by the warranty provided by the relative manufacturer in compliance with the specified terms and conditions.

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

13. MAINTENANCE TABLE

The boxes at the side are for you to mark the date or number of working hours at which the intervention was made.

Operation	Frequency (hours)	Completed (Date or Hours)	Notes
MACHINE			
Safety checks/check controls	Before each use		par. 6.2
Tyre pressure check	Before each use		par. 6.1.3
Assembly/Checking of outlet guards	Before each use		par. 6.1.4
General cleaning and inspection	After each use		par. 7.4
Checking for any damage to the machine. If necessary, contact the authorised assistance centre.	After each use		-
Battery power reserve	Before storage		par. 7.5
Complete bolt and screw check	25		
Cutting means positioning and sharpening check	25		***
Transmission belt check	25		***
Cutting means control belt check	25		***
Brake regulation and check	25		***
Drive regulation and check	25		***
Cutting means gear and brake check	25		***
General lubrication	25		****
Replacing cutting means	100		***
Replacing the transmission belt	-		** / ***
Replacing the cutting means control belt	-		** / ***

* See the engine manual for the full list and frequency

** At the first signs of any malfunction, contact your Dealer immediately

*** The operation must be carried out by your Dealer or a specialized Service Centre

*** General lubrication of all joints should also be carried out whenever the machine is to be left unused for a long period.

Operation	Frequency (hours)	Completed (Date or Hours)	Notes
ENGINE			
Checking/topping up fuel level	Before each use		par 7.2
Check/top-up engine oil	Before each use		par 7.3
Replacement of the engine oil	...		*
Air filter cleaning and check	...		*
Air filter replacement	...		*
Fuel filter check	...		*
Fuel filter replacement	...		*
Spark plug points cleaning and check	...		*
Replace the spark plug	...		*

* See the engine manual for the full list and frequency

** At the first signs of any malfunction, contact your Dealer immediately

*** The operation must be carried out by your Dealer or a specialized Service Centre

*** General lubrication of all joints should also be carried out whenever the machine is to be left unused for a long period.

14. PROBLEM IDENTIFICATION

PROBLEM	PROBABLE CAUSE	REMEDY
1. With the key turned to «ON», the light stays off (<i>for rear collection models only</i>)	The safety device of the electronic circuit board has cut in due to:	Turn the ignition key to «STOP» position and look for the cause of the problem:
	badly connected battery	check the connections (par. 4.4)
	battery terminals crossed	check the connections (par. 4.4).
	flat battery	recharge the battery (par. 7.5)
	fuse blown	replace fuse (10 A) (par. 8.5).
	wet circuit board	dry using luke warm air
2. With the key turned to «START» the light flashes and the starter motor does not run (<i>for rear collection models only</i>)	starting conditions have not been met	check that all starting conditions are met (par. 6.2.2)
3. With the key turned to «START» the light is on but the starter motor does not run (<i>for rear collection models only</i>)	insufficiently charged battery	recharge the battery (par. 7.5)
	malfunction on the starter relay	contact your Dealer

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

PROBLEM	PROBABLE CAUSE	REMEDY
4. With the key turned to «START» the starter motor does not run (<i>for side discharge models only</i>)		Turn the ignition key to «STOP» position and look for the cause of the problem:
	starting conditions have not been met	check that all starting conditions are met (par. 6.2.2)
	badly connected battery	check the connections (par. 4.4)
	battery terminals crossed	check the connections (par. 4.4)
	flat battery	recharge the battery (par. 7.5)
	fuse blown	replace fuse (10 A) (par. 8.5).
	wet circuit board	dry using luke warm air
	malfunction on the starter relay	contact your Dealer
5. With the key on «START» the starter motor runs but the engine does not start	insufficiently charged battery	recharge the battery (par. 7.5)
	faulty fuel supply	check the level in the tank (par. 7.2.1)
		open the fuel stopcock (if foreseen) (par. 6.4)
		check the fuel filter
	faulty ignition	check that spark plug cap is securely fitted
		check that the electrodes are clean and have the correct gap
6. Starting is difficult or the engine runs erratically	carburation problems	clean or replace the air filter
		empty the fuel tank and refill with fresh fuel
		check and replace the fuel filter if necessary
7. Weak engine performance during cutting	forward speed too high in relation to cutting height	reduce the forward speed and/or raise the cutting height (par. 6.5.4)
8. The engine shuts down whilst working	the safety devices have cut in	check that all starting conditions are met (par. 6.2.2)
	blown fuse due to a short circuit or electrical system faults (<i>for side discharge models only</i>)	The cause of the fault should be ascertained and dealt with to avoid reactivating the protection device Replace the fuse (10 A) (par. 8.5). Contact your Dealer if such interruptions continue
9. The engine stops whilst operating and the indicator light switches off (<i>for rear collection models only</i>)	The safety device of the electronic circuit board has cut in due to:	Turn the ignition key to «STOP», wait for a couple of seconds to allow the circuit to reset automatically and:
	battery terminals crossed	check the connections (par. 4.4)
	faults in the battery charging regulator	check the battery connections (par. 4.4)
	short circuit	check the battery is fitted
10. The cutting means do not engage or do not stop promptly when they are disengaged	problems with engagement mechanism	contact your Dealer
		contact your Dealer

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