



POLE SAW ATTACHMENT
ACCESSOIRE POUR TRONCONNEUSE A RALLONGE
POL-SÄGE ZUSATZGERÄT
ACCESSORIO PER MOTOSEGA PROLUNGATA
STOKZAAG TOEBEHOREN
ACCESORIO PARA CORTASETOS ARTICULADO DE ALTURA

A-89539

INSTRUCTION MANUAL
MANUEL D'INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUALE DI ISTRUZIONI
HANDLEIDING
MANUAL DE INSTRUCCIONES

Important:

This attachment is designed to be mounted on Makita Brush Cutter (Grass Trimmer). Before use, be sure to read thoroughly both instruction manuals of this attachment and your Brush Cutter (Grass Trimmer). Any failure to follow the indications of the manual may lead to serious accidents.

Important:

Cet accessoire est conçu pour être monté sur les débroussailleuses (taille-bordures) Makita. Avant le démarrage, ne pas manquer de lire les manuels d'instructions pour cet accessoire et votre débroussailleuse (taille-bordures). Une inobservation des instructions des manuels pourra causer des accidents sérieux.

Wichtig:

Dieses Zusatzgerät wird entwerft, um es auf die Makita Motorsense (das Makita Rasentrimmer) zu montieren. Vor den Gebrauch, lesen Sie sicher beide Bedienungsanleitungen dieses Zusatzgerät und Ihrer Motorsense (Ihren Rasentrimmers) gründlich. Wenn Sie eine Gelegenheit den Anweisungen der Anleitung zu folgen verpast haben, kann es vielleicht zu schwereren Unfälle führen.

Importante:

Quest'accessorio è progettato per essere montato sul decespugliatore (tagliabordi) Makita. Prima di avviamento, è necessario leggere i manuali di istruzioni per questo accessorio e per suo decespugliatore (taliabordi). Una inosservanza delle istruzioni dei manuali potrà provocare dei gravi accidenti.

Belangrijk:

Dit toebehoren is bedoeld om te worden bevestigd op de Makita Bosmaaier (Strimmer). Voor gebruik dient u de handleidingen van dit toebehoren en van de Bosmaaier (Strimmer) zorgvuldig door te lezen. Niet opvolgen van de instructies in de handleidingen kan leiden tot ernstige ongelukken.

Importante:

Este accesorio es proyectado para ser montado a la desbrozadora (cortabordes) de Makita. Antes de puesta en marcha, lea cuidadosamente los manuales de este accesorio y de su desbrozadora (cortabordes). Una inobservancia de las instrucciones de los manuales puede provocar heridas de gravedad.

Thank you very much for purchasing Makita Pole Saw attachment. This attachment is designed to be mounted on Makita Brush Cutters (Grass Trimmers) mentioned below.
Before use, please read this manual and instruction manual of your Brush Cutter (Grass Trimmer), and pay special attention to safety during operation.

Table of Contents

1. Safety instructions	1
2. Specifications.....	2
3. Designation of parts.....	2
4. Preparations for operation	3
5. Inspection and maintenance	4
6. EC declaration of conformity	6

Attachable models:

RBC221, RBC226, RBC251, RBC256, RBC2510, RPT250

1. SAFETY INSTRUCTIONS

Observe the following for safety operation of the Pole Saw.

! Danger: High-voltage current is running through the electric and telephone wires and other communication cables. Pay full attention to keep the machine completely off from the wires and cables.

1) Clothing and protective equipment

- Wear the clothing and protective equipment (safety helmet, protective goggles, safety shoes, gloves, earplugs, etc) that are best adapted to the operation.
- Never handle the saw chain with the bare hand. (Wear the gloves.)

2) Cautions in operation

- Be sure to stop the engine when touching the saw chain and other rotating parts.
- Check carefully the work site in advance and confirm that there are not any dangerous objects. (Never perform operation on an unstable footing.)
- Before use, be sure to check the chain oil level.
- During operation, be sure to keep off obstacles (electric wires, etc), bystanders or animals within a radius of 15 m.
- Never use the machine for purposes other than hedge trimming.
- During operation, use the shoulder strap. Keep securely the machine on your right side, holding the front handle with the left hand and the rear grip with the right hand. Keep a stable operating position with the legs spread.
- During operation, never hit the saw chain against hard obstacles such as stone and metal.
- To prevent kickback, never perform cutting at the edge of the guide bar. (Do not perform penetration cutting.)

3) Cautions in cutting work

- Before proceeding to cutting work, keep an evacuation area and remove, in advance, branches and leaves that can hamper visibility during cutting.
- Check in advance the falling direction of branches to cut off, considering the condition of branches and trunks, adjoining trees, wind direction, etc. Pay full attention to the falling direction of cut branches. (Keep cars off from falling branches.)
- The maximum cutting angle of this machine is 60°. Never perform cutting at angles larger than the limit.
- If the saw chain and guide bar are caught by branches, cut them in two or three stages from their end.
- Pay attention to broken or bent branches. They may bounce back in cutting, causing unexpected injury.
- Never use the machine to cut branches of 15 cm or more in diameter.

4) Cautions after cutting work

- When moving, transporting or storing the pole saw, be sure to stop the engine and protect the saw chain with the chain cover.
- Before storing the machine, perform clearing and maintenance, and drain chain oil.
- During storing, never keep the machine upright. It may fall unexpectedly, causing an injury.
- Perform regular inspection and maintenance of the machine at your dealership.

5) Others

- Be sure to follow the indications of the instruction manual of your Brush Cutter (Grass Trimmer).



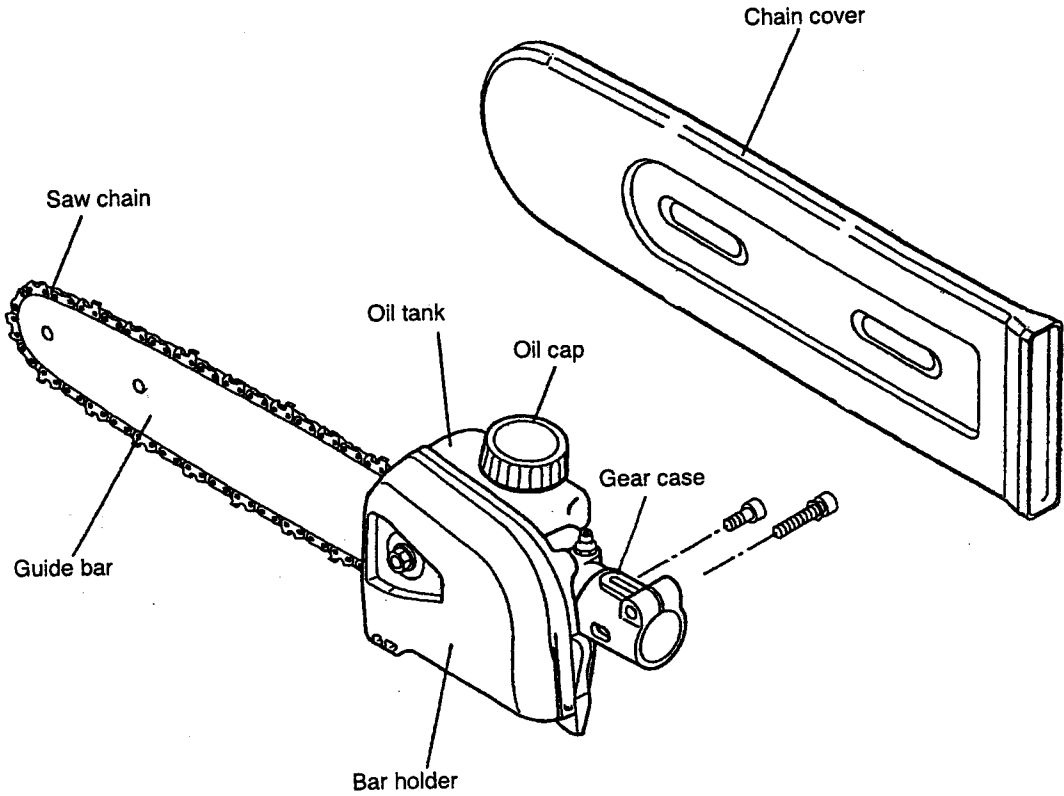
Beware of electrical lines, risk of electrical shock



2. SPECIFICATIONS

Length of guide bar			10 inch (250 mm)	
Saw chain			90SG-39E	
Chain pitch			3/8 inches	
Chain gauge			0.043 inches	
No. of sprocket teeth			7	
Chain oil lubrication			Plunger type (self-lubricating)	
Oil tank capacity			110 ml	
Chain oil			SAE10W-30 or equivalent	
Gear speed increasing ratio			1.06	
Vibration per ISO 11680	Rear grip	Idling	m/s ²	3.34 (RBC2510 attached)
		Racing or W.O.T	m/s ²	8.66 (RBC2510 attached)
	Front handle	Idling	m/s ²	5.09 (RBC2510 attached)
		Racing or W.O.T	m/s ²	6.20 (RBC2510 attached)
Sound pressure level average to ISO 11680			dB	92.6 (RBC2510 attached)
Sound power level average to ISO 11680			dB	103.1 (RBC2510 attached)

3. DESIGNATION OF PARTS

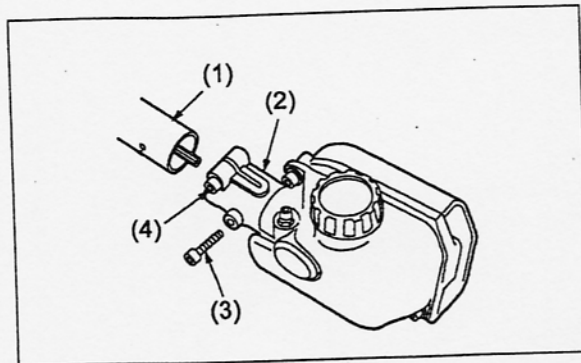


4. PREPARATIONS FOR OPERATION

1) Mounting of attachment

! Attention: Before mounting the attachment, be sure to stop the engine and wear the gloves.

- Remove the Brush cutter gear case and shatterproof cover from the pipe shaft.
- Mount the gear case (2) to the pipe shaft (1), and fix it with the fixing bolt (3) and tightening bolt (4).

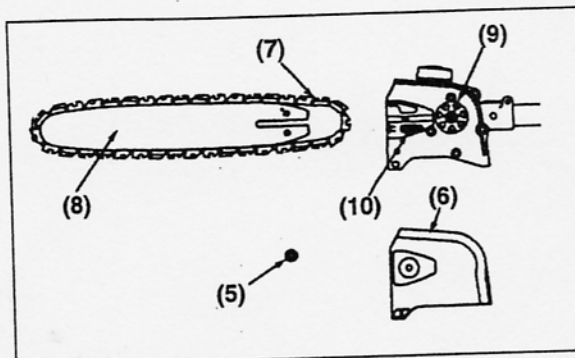


- Loosen the nut (5), remove the bar holder (6), and fit the saw chain (7) into the groove of the guide bar (8).

! Attention: Never handle the saw chain with the bare hand.

! Attention: Pay attention to the mounting direction of the saw chain.

- Fit the saw chain (7) to the sprocket (9). Make adjustment so that the chain tension nut (10) will be set to the hole of the guide bar (8). Place the bar holder (6) and provisionally tighten it with the nut (5).

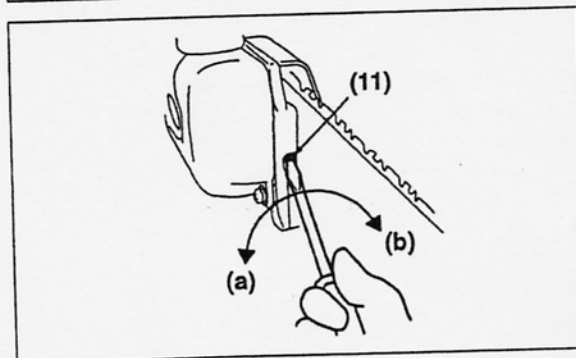
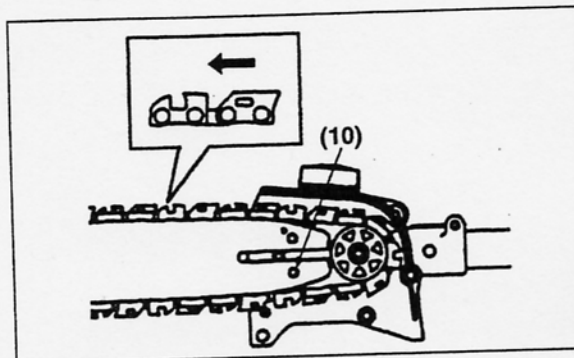


- Adjust the tension of the saw chain by saw chain tension adjusting screw (11), and securely fix the bar holder (6). (Tightening torque: 8.9 – 11.7 N·m)

! Attention: If the tension of the saw chain is too tight, the guide bar or the saw chain may be damaged. If it is too loose, the saw chain may slip off. Check by hand to see that the saw chain runs smoothly with an adequate tension.

- a) Loosen
- b) Tighten

! Attention: Before use, confirm that the saw chain has an adequate tension. If not, make adjustment.



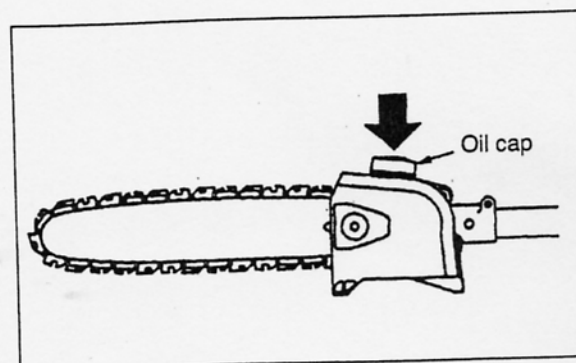
2) Supply of chain oil

- Remove the oil cap and supply chain oil to the oil tank.
- Oil used: SAE10W-30 or

Summer: SAE#30 - #40
Winter: SAE#20

! Attention: Never use fouled oil which may damage the oil pump.

! Attention: The chain oil becomes empty in about 40 minutes of operation after it fills the tank to the full. During work, always pay attention to the oil level, and add oil if it becomes below the limit level.



3) Adjustment of chain oil discharge volume

- The chain oil is discharged automatically by oil pump to lubricate the saw chain while the saw chain is in rotation. Start the engine and confirm that the engine oil is discharged while it runs at a middle speed.

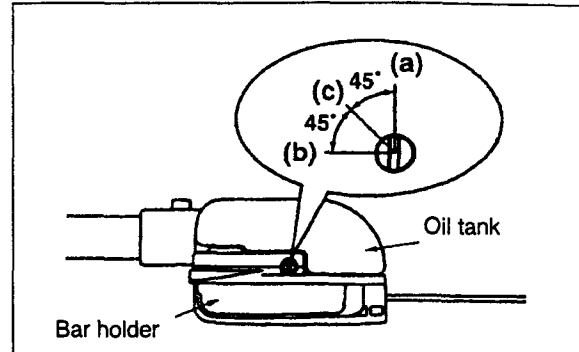
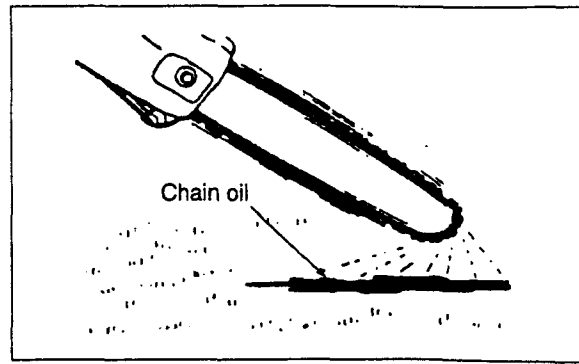
Important: The chain oil discharge can be adjusted in three stages. It is set to the minimum discharge volume in the factory. Adjust the oil discharge volume when cutting hard or massive branches.

- The discharge volume of the chain oil is adjusted by rotating the oil pump adjuster (3 stages). When rotating the oil pump adjuster, keep pushing it.

- a) Oil discharge min. volume
- b) Oil discharge max. volume
- c) Oil discharge medium volume

! Attention: Be sure to keep pushing the oil pump adjuster during its rotation. If it is turned by force or in the reverse direction, the oil pump adjuster may be damaged.

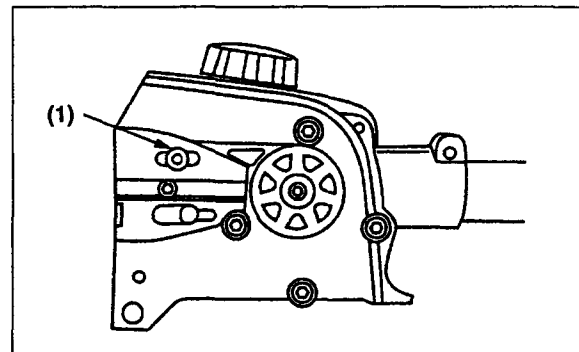
! Attention: When refilling oil or adjusting the oil discharge volume, be sure to stop the engine.



5. INSPECTION AND MAINTENANCE

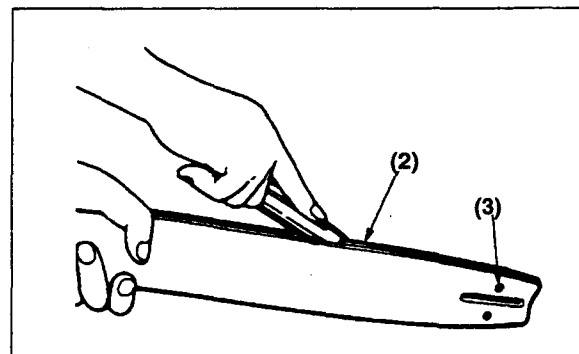
1)Chain oil discharge port

- Remove the guide bar and clean the oil discharge port (1). (Inspection before work)



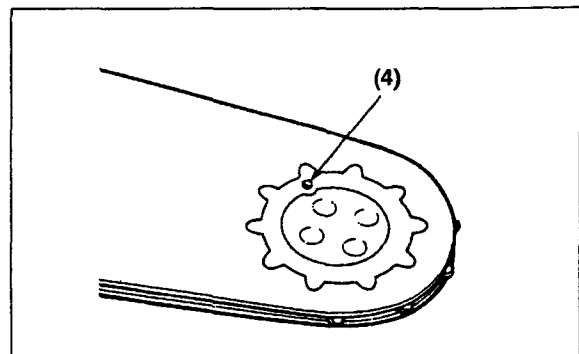
2)Guide bar

- Remove saw dust from the guide-bar groove (2) and oil discharge port (3). (Inspection before work)



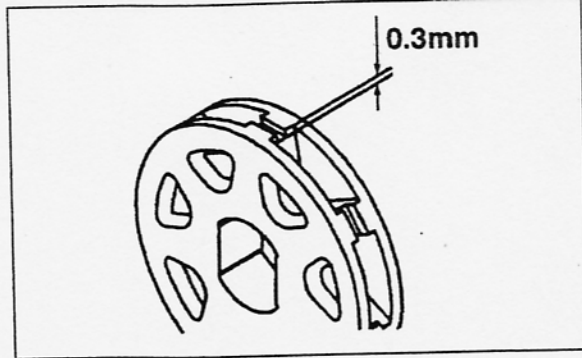
- Fill grease from the grease hole (4) at the end of the guide bar. (Inspection before work)

! Attention: Replace the guide bar tooth-rest groove, if it is worn or deformed



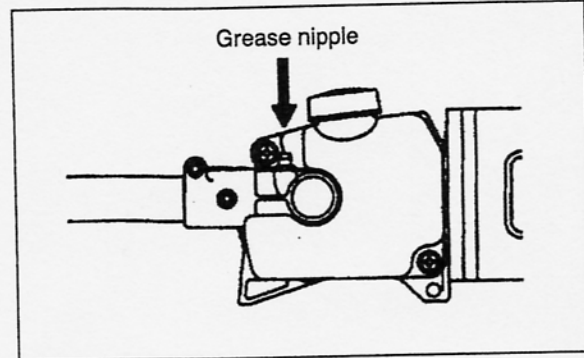
3) Sprocket

- Check the sprocket for wear. Replace it if the tooth groove is 0.3 mm or more. (Every 50 hours)



4) Gear case

- Every 25 hours, refill grease from the grease nipple of the gear case. (Grease used: lithium-base grease)



5) Saw chain

- If the saw chain is worn, deformed or damaged, set the teeth or replace the saw chain. (Inspection before work)

! Danger: If there appears deteriorated cutting performance, or increased vibration or fuel consumption, replace the saw chain.

EU Conformity Declaration

The undersigned, Yasuhiko Kanzaki, as authorized by MAKITA INTERNATIONAL EUROPE LTD., Michigan Drive, Tongwell, Milton Keynes, Bucks MK15 8JD, U.K., declare that the Makita Machines,

Type : A-89539

manufactured by Robin conforms to the basic safety and health requirements of the applicable EU guidelines:

EU Machine guideline 98/37/EG

EU EMC guideline 89/336/EWG (modified by 91/263/EWG, 92/31/EWG and 93/68/EWG)

Noise Emission guideline 2000/14/EC

The most important standards applied to properly meet the requirements of the above EU guidelines were:

ISO 11680, CISPR 12, EN50082-1, DIN VDE 0879 T1.

Technical Documentation: Fuji Robin Industries Ltd.

35 OHOKA, NUMAZU - CITY, SHIZUOKA - PREF, 410-8535 JAPAN

Hiroshi Hirooka

General Manager, Engineering Department

Guaranteed Sound Power : 109 dB (RBC2510 attached)

Measured Sound Power : 106 dB (RBC2510 attached)

Milton Keynes, 01.11.01

For MAKITA INTERNATIONAL EUROPE LTD.



Yasuhiko Kanzaki
Managing Director