

DRAPER®

®

INSTRUCTIONS FOR Pole Pruner Attachment

Stock No. 14162

Part No. GTA2

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself. All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



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1. GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

A proof of purchase must be provided with the tool.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF, England. Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge.

This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

NOTE: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly. This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period. Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited



2. SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock no.	14162
Part no.	GTA2
Oil tank volume	120cm ³
Cutting length	250mm
Chain	
Make & Model	Oregon 91VG039E
Specified pitch	9.52mm
Specified gauge [thickness of drive links]	1.27mm
Guide bar	
Make & Model	Oregon 100SDEA218
Length	10" [255mm]
Sprocket	7 Teeth x 9.52mm
Maximum rotational frequency of the spindle	8,500min ⁻¹
Mass (power unit & cutting attachment, without fuel and guard)	6.4kg
Fuel tank volume	600cm ³
Engine displacement	25.4cm ³
Maximum engine performance 1	0.75kW
Engine speed (rotational frequency) ²	10,000min ⁻¹
Engine speed (rotational frequency) ³	3,000min ⁻¹
Sound pressure level (A-weighted $L_{pA^{av}}$) ⁴	102dB(A)
Sound power level (A-weighted $L_{WA^{av}}$) ⁴	112dB(A)
Single value noise level ⁵	112dB(A)
Vibration level ⁶	10.5m/s ²

ALWAYS WEAR SUITABLE AND APPROVED PERSONAL PROTECTIVE EQUIPMENT.

¹ In accordance to ISO 8893.

² At recommended maximum spindle rotational frequency.

³ At idling.

⁴ In accordance to BS EN ISO 22868.

⁵ A-weighted sound pressure level in accordance to 2000/14/EC

⁶ In accordance to BS EN ISO 22867.

The declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.

The declared vibration total value may also be used in a preliminary assessment of exposure.

WARNING! The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used.

WARNING! Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

SCOPE: This pole pruner attachment is designed exclusively for connection to the Draper 26cc petrol engine [Stock no. 14153 or 14160]. When joined it forms a petrol pole pruner intended for delimiting⁷ standing trees in a domestic environment.

⚠ ATTENTION! Any other application is considered misuse.

⁷ Removing small branches.

3. SAFETY INSTRUCTIONS

WARNING! For your safety, please read and understand these instructions before assembling, operating or maintaining this machine.

WARNING! Read the instructions carefully. Never attempt to modify or operate a modified machine. Fully assemble this machine, including all relevant guards, before operating. Do not operate the machine without being completely familiar with the safety features and how to operate them.

Never operate this machine if the stop switch is faulty or not functioning.

Never operate this machine while tired, ill or under the influence of drugs.

DANGER! Keep out of the reach of children.

Refer to the instructions supplied with the engine. Fully read and understand before attempting to assemble, operate [especially fuelling] or maintain the engine.

Never allow people unfamiliar with these instructions to operate this machine. Local regulations may restrict the age of the operator.

WARNING! This machine can cause serious injuries.

Prior to each use, inspect the machine for signs of damage. Make sure the safety features are present and functioning and that all visible nuts, bolts and screws remain tight. Vibration from normal use can cause them to loosen over time.

Never operate this machine with defective or missing guards.

Do not operate this machine near animals or bystanders. Maintain a distance of at least 15M between the operating machine and bystanders.

Check this attachment is correctly fitted to the P.T.O. shaft before attempting to start the engine.

CAUTION! As the user you are responsible for any injury to people or damage to property.

Never leave this machine running when not in use or leave the it unattended during use.

Do not operate this machine with a damaged or excessively worn cutting device [chain and guide bar].

Always be aware of your surroundings, staying alert for possible hazards that you may not hear over the noise of the engine.

Always wear appropriate PPE [Personal Protective Equipment].

- Wear head protection if there is a risk of falling objects.
- Wear eye protection [safety goggles or face shield] to protect your eyes from debris thrown out .
- Ear defenders must be worn to prevent damage to your hearing.
- Wear suitable footwear to prevent slipping and protect your feet from injury.
- Gloves to help reduce vibration fatigue.

Wear fitted clothing and remove items likely to become drawn in, for example, ties, scarfs, and jewelry. Also, if applicable, tie back long hair.

For outdoor use only.

Always maintain a safe and secure position on level ground while operating this product. Beware of the conditions under foot. If work on a slope is unavoidable, always be sure of your footing.

Keep all handles and switches free from oil, fuel and moisture.

Always operate the machine with two hands.

Operate the machine using the harness supplied. Make sure it is suitably adjusted to the correct size. This will help prevent fatigue.

Make sure the chain does not operate while the machine is at idle.

Do not inhale exhaust fumes as they are toxic.

Do not set this machine down on or near easily combustible material for example dry leaves or grass.

Beware of hidden objects. Check there are no overhead wires, power cables or other objects hidden within the tree limbs that will damage this machine or cause injury if cut by the chain.

WARNING! This machine must not be used in any circumstances that cause it to be within 15 meters of overhead electrical power lines.

WARNING! This machine has not been designed to provide protection from electrical shock in the event of contact with overhead electrical lines.

If the machine starts to vibrate abnormally or starts making unusual noises stop the engine immediately. Investigate the problem or return the machine to an authorized service agent.

3. SAFETY INSTRUCTIONS

WARNING! The chain continues to move after the trigger has been released.

When transporting or storing this machine, always fit the bar guard.

Check before use; National regulations may restrict the use of this type of machine.

Do not attempt to fell a tree with this machine.

Do not attempt to fit a longer guide bar or saw chain.

MAINTENANCE

Always maintain this machine in good working order and regularly serviced by an authorized service agent.

Only use genuine replacement parts supplied by the manufacturer.

STORAGE

After each use, clean the machine thoroughly.

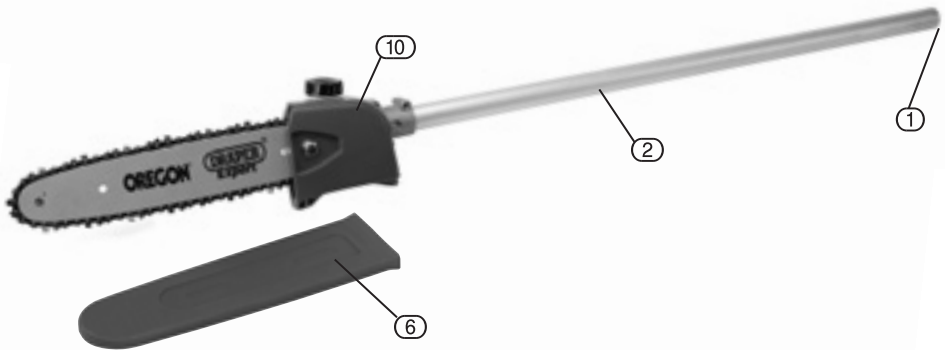
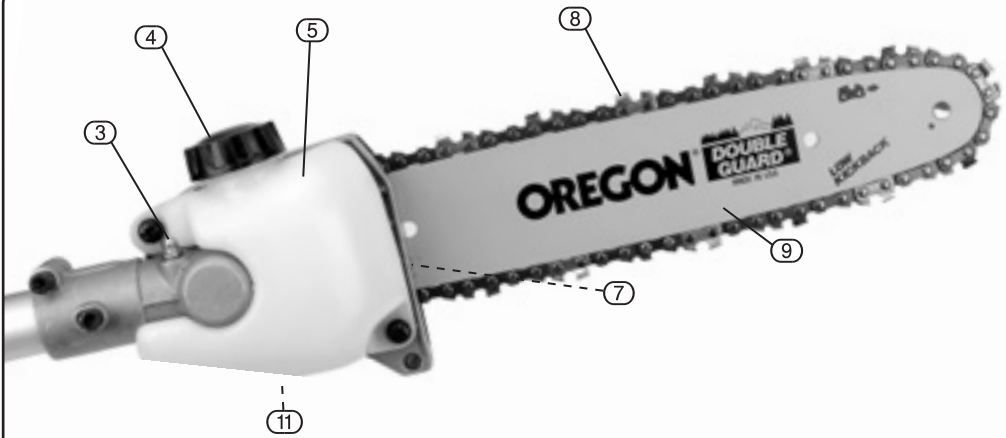
Remove the spark plug ignition lead from the back of the spark plug to disable the engine from starting.

Store the machine out the reach of children and in a locked, dry location.

Remove all residual fuel from the fuel tank before storing. Fuel quality deteriorates over a couple of months causing problems.

Store the machine in a horizontal position. Do not stand upright with the engine on the floor.

4. IDENTIFICATION GUIDE



Pole pruner attachment:

- | | | | |
|---|-------------------------|---|---------------------------------|
| ① | PT.O. connection point. | ⑦ | Chain tension adjustment screw. |
| ② | Shaft. | ⑧ | Chain. |
| ③ | Grease nipple. | ⑨ | Guide bar. |
| ④ | Oil reservoir cap. | ⑩ | Drive sprocket cover. |
| ⑤ | Oil reservoir. | ⑪ | Oil flow adjustment screw. |
| ⑥ | Bar guard. | | |

- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the product and contact the dealer from whom it was purchased.
- The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

5.1 FITTING THE CHAIN AND GUIDE BAR:

Refer to section 7.1.2 **Fitting the chain and guide bar** for detailed information.

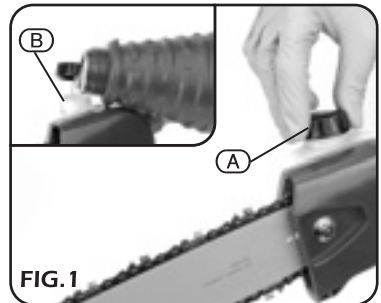
5.2 ADJUSTING THE CHAIN TENSION:

Refer to section 7.1.3 **Tensioning the chain** for detailed information.

5.3 CHAIN OIL (Fig.1):

A continuous flow of oil on to the guide bar and chain must be provided at all times. This oil lubricates the chain around the bar preventing it from over heating and seizing up.

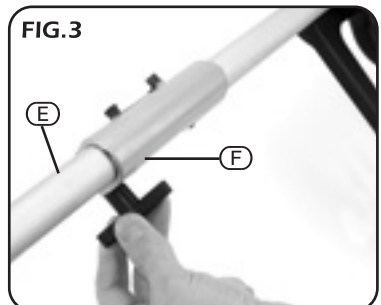
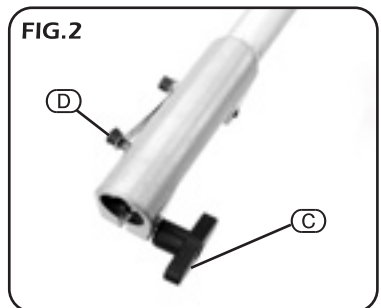
- i. Turn the oil reservoir cap (A) anticlockwise to remove it.
- ii. Fill the reservoir (B) with chain oil. Do not use any other type of new or used oil. Chain oil is specifically designed for the job and is not harmful to the environment.
- iii. Replace the oil reservoir cap (A) tightly, turning it clockwise.



5.4 CONNECTING THE ATTACHMENT (Fig.2 & 3):

- ① **Before** attempting to start the engine, this attachment must be correctly assembled to the engine output shaft's power take off.
 - i. Make sure the locking handle (C) is loose by turning it anticlockwise a few turns.
 - ii. Pull back on the positioning pin (D) and move it to one side, clear of the hole.
 - iii. Slide the pole pruner's shaft (E) inside the power take off collar (F) of the engine unit.
 - iv. Line up the holes in both shafts before locating pin (D).
 - v. Tighten the locking handle (C) clockwise to secure the two sections together.

Do not attempt to connect non-genuine accessories as it may result in injury or cause damage to this machine.



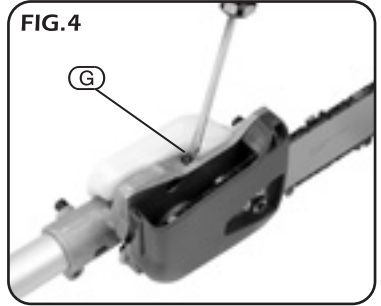
6.1 ADJUSTING THE OIL FLOW (Fig.4):

Check the flow of chain oil. See how much is thrown from the tip of the bar at full throttle on to a piece of clean white paper. A light spray of oil should be cast on to the paper. If it appears excessive or too light, adjust as necessary.

- i. With the engine stopped, adjust the oil flow adjustment screw (G) clockwise to increase the flow or anticlockwise to decrease it.
- ii. Start the engine and test the flow again. When sufficient is being thrown from the tip, the adjustment is complete.

A reservoir full of chain oil will run dry long before the engine runs out of fuel. Continually check the oil level during use, refilling the reservoir before it is empty.

FIG.4



6.2 WORKING TECHNIQUES (Fig.5 - 9):

Beware of hidden objects. Check there are no cables or other objects hidden within the tree branches that will damage this machine or cause injury if cut by the pruner. **This machine must not be used in any circumstances that cause it to be within 15M of overhead power lines.**

Before beginning any overhead work, the ground must be cleared first. Remove any debris that is likely to trip or obstruct a quick exit to safety. You must plan an 'escape route' should anything fall suddenly.

Inspect the condition of the tree. Check that there are no loose branches that are likely to fall unexpectedly as a result of what you intend cutting. Check for signs of decay within the tree that may cause part or all of the tree to fall on you.

Do not attempt to cut wind fallen trees or timber.

Work systematically starting from the lowest branches first. This prevents falling branches from becoming hung.

Do not work in windy conditions as this increases the risk of personal injury.

Remove the transport guard before starting the engine.

ATTENTION! Before cutting, make sure the chain is correctly fitted and tensioned.

6. OPERATION & USE

6.2.1 Delimiting (Fig.5 & 6):

The best practice is to cut branches in to manageable sections.

Due to the weight of the branch on it's self, simply cutting through from top to bottom will result in it splitting along the branch damaging the tree. An initial relief cut on the underside, followed by a final cut from above will stop this from happening.

- i. Position the cutting head near the tree limb making sure it is not touch any other branches.
- ii. With the saw chain running at full speed, begin cutting the underside of the branch using the chain on the top of the guide bar. Cut approximately one third of the way through. Beware of hidden branches as contact with the tip can cause the saw to kickback.
- iii. Finish cutting down through the remaining two thirds. Let the chain do the cutting: **Do not force it.**
- iv. Safely and quickly get out of the way from the falling debris.

Small branches can be removed in one cut.

Do not cut too close to the trunk as it creates a larger diameter 'wound' and takes longer to 'heal'. It can also speed up the spread of decay. A 'wound' will 'heal' fine without the need for any treatment.

The guide bar and chain are consumable items.

FIG.5

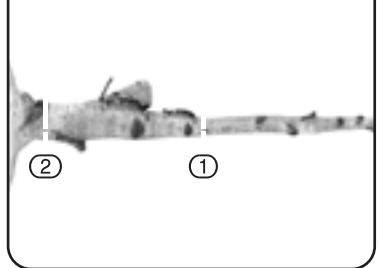
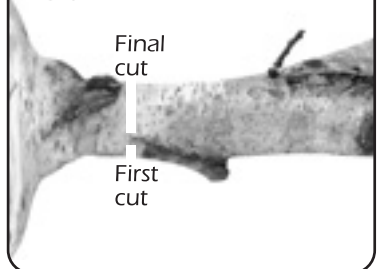


FIG.6



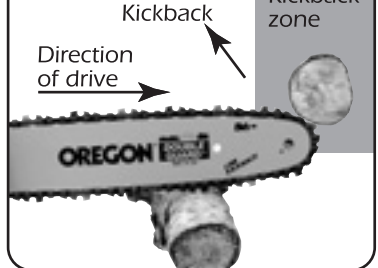
6.2.2 Hazards (Fig.7 - 9):

There are several dangers specific to cutting timber with a saw chain.

Kickback is the term used to describe the reaction when the tip of the guide bar is thrown upwards in an arc. On a chainsaw this is very dangerous as it is generally thrown up toward the users face; however, on this type of machine it can still be hazardous and result in a loss of control or injury.

The chain is driven out, away from the head, along the top of the guide bar. If the chain stops suddenly [pinched by the limb being cut] within the kickback zone it will drive the guide bar back and upward in the opposite direction.

FIG.7



6. OPERATION & USE

Pull-In is the result of the chain becoming pinched along the underside of the guide bar, the reaction doing as the name suggests, whipping the machine away from you. To avoid this, make sure the chain is running at full speed before starting the cut.

Push back is the result of the chain becoming pinched along the top of the guide bar. The reaction, kicks the machine back towards you. The most likely cause for the chain becoming pinched is the cut closing under the weight of the branch. To prevent this, reduce the depth of the relief cut on the underside.

Generally, the best way to avoid these hazards are:

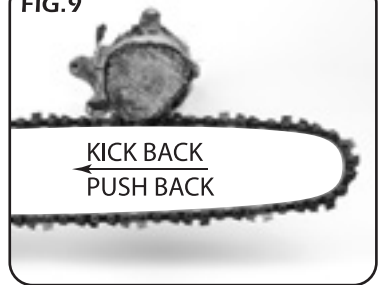
- Maintain a sharp and correctly tensioned chain.
- Cut one branch at a time.
- Avoid all other branches while performing the cut.
- Butt the housing up to the branch.
- Begin the cut only with the chain at full speed.
- Concentrate at all times and firmly grip the machine with both hands.

If the machine remains trapped in a partial cut stop the engine. Support the weight of the machine while trying to lift [or pull down, depending on the side of the chain trapped] the branch to release the chain.

FIG.8



FIG.9



7. MAINTENANCE

7.1 CHAIN MAINTENANCE (Fig.10 - 15):

A saw chain must be regularly maintained to keep it sharp. A blunt chain is more likely to cause kickbacks, reduce fuel economy and above all make the job more difficult. A sharp, well adjusted chain should cut effortlessly through the timber with little pressure.

After use slacken off the chain tension to prevent the chain from stretching. As the chain cools down it will contract over the guide bar.

7.1.1 REMOVING THE CHAIN & BAR (Fig.10 - 12):

When the chain begins to wear, the cutting performance will reduce. Have the chain sharpened or replace it with an identical one.

- i. With the engine stopped, loosen the 10mm nut (I) anticlockwise.
- ii. Turn the chain tension adjustment screw (H) anticlockwise to loosen the strain on the bar.
- iii. Remove the 10mm nut (I) anticlockwise, followed by the drive sprocket cover (J).
- iv. Lift the guide bar (K) with the saw chain (L) off the locating stud (M) and tension pin (N) and away from the drive sprocket (O).

FIG.10

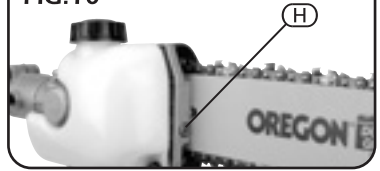
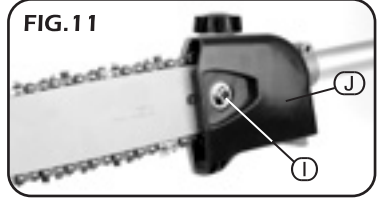


FIG.11



7.1.2 FITTING THE CHAIN & GUIDE BAR (Fig.11 - 13):

CAUTION! Take care when handling the chain as it is sharp [or at least it should be!].

- i. With the engine stopped remove the 10mm nut (I) anticlockwise, followed by the drive sprocket cover (J).
- ii. Adjust the chain tension adjustment screw (H) (Fig.10) until the tensioning pin (N) is approximately in the midway position.
- iii. Hold the guide bar (K) up and beginning at the nose [tip] lay the saw chain (L) in to the groove. Make sure the nose sprocket teeth sit correctly between the chain links (Fig.12).
- iv. Fit the guide bar (K) with the saw chain (L) on to the locating stud (M). The chain links on the top of the guide bar must have the arrow pointing away from the housing. If there is no arrow marking visible on the chain, mount it as shown in Fig.13.
- v. Replace the drive sprocket cover (J) and the 10mm nut (I). Turn the nut clockwise but only finger tight until the correct tension has been setup.

FIG.12

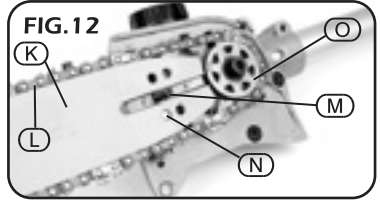


FIG.13

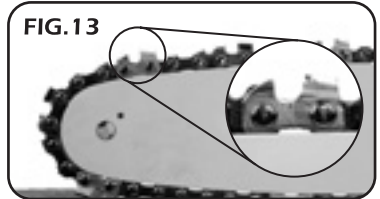
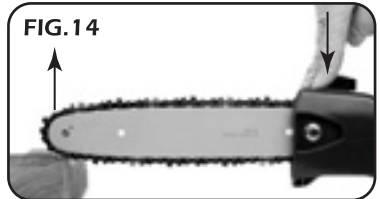


FIG.14



7.1.3 TENSIONING THE CHAIN (Fig.14 & 15):

When fitting a new chain, check and adjust it regularly until the initial stretch has been taken out [this is normal].

- i. With the engine stopped and the 10mm nut (I) (Fig.11) finger tight, hold the tip of the bar up.
- ii. Turn the chain tension adjustment screw (H) (Fig.11) clockwise until the chain pulls tight on the bottom of the bar.
- iii. When correctly adjusted it should be possible manually run the chain around the bar and pull one complete chain link clear of the groove.

FIG.15



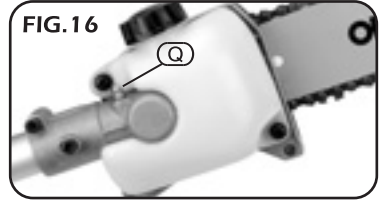
7. MAINTENANCE

7.2 GEARBOX LUBRICATION (Fig.16):

The components within the gearbox have to work very hard and as a result **MUST** remain well lubricated at all times. Before or after each use:

- i. Connect a compatible grease gun to the gearbox assembly's grease nipples (Q).
- ii. Pump in a general purpose gearbox grease.

FIG.16



7.3 STORAGE (Fig.17):

When transporting, and before storage, the guard should be installed. After use and before storing the machine the chain tension should be loosened to prevent it from stretching. Finally, drain the chain oil from the reservoir.

FIG.17



8. TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SUGGESTED REMEDY
1. Chain does not move or is too tight.	Insufficient chain lubrication. Chain tension too tight due to heat expansion of chain.	Check oil level in reservoir. Check oil lines are not blocked. Stop engine. Reduce chain tension slightly.
2. Chain moves while engine is at idle.	Idle is set too high.	Adjust the idle setting until the chain stops.

9. DISPOSAL

- At the end of the product's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.

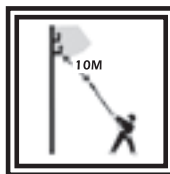
In all circumstances:

- Do not dispose with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- When decommissioning [preparing the machine to be scrapped] drain any remaining fuel and oil for separate disposal.

10. EXPLANATION OF SYMBOLS/PICTOGRAMS



Beware of thrown objects.



Beware for overhead electric-power lines.



The distance between the machine and bystanders shall be at least 15M.



WARNING.
Can pose a danger to wildlife.

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- **General Enquiries:** (023) 8026 6355

- **Service/Warranty Repair Agent**
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