Owners Manual

Line Trimmer

MT40BH

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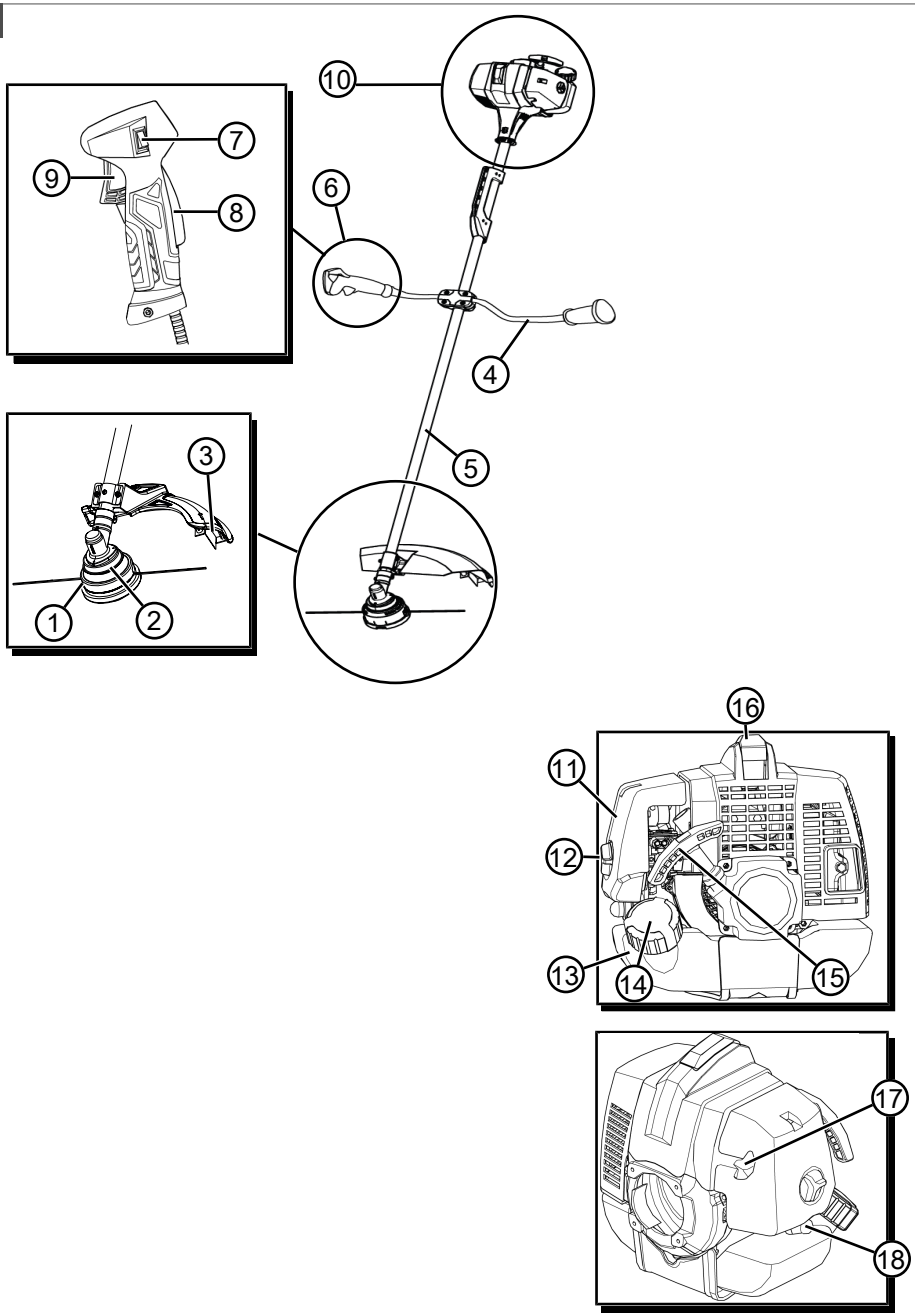

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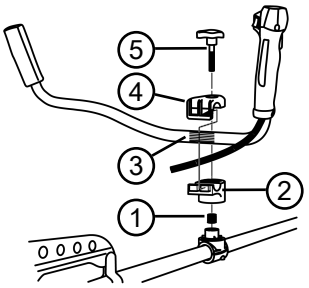

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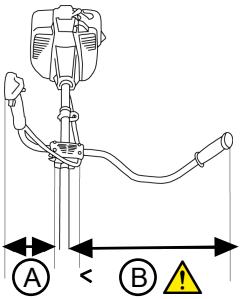

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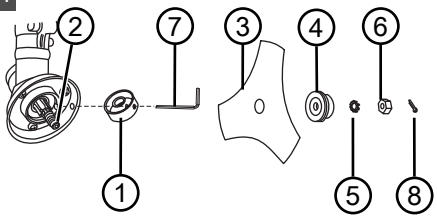

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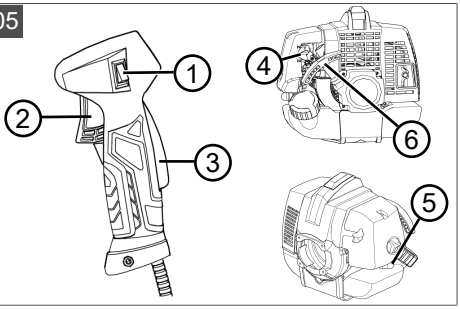

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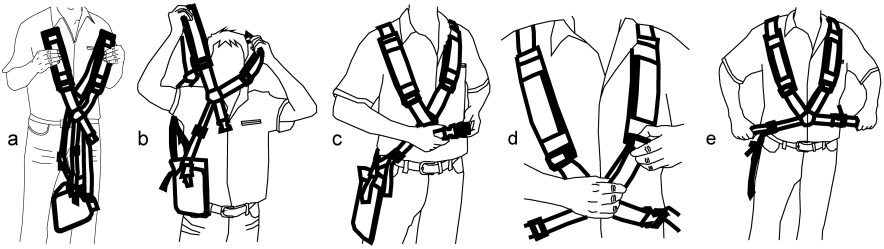

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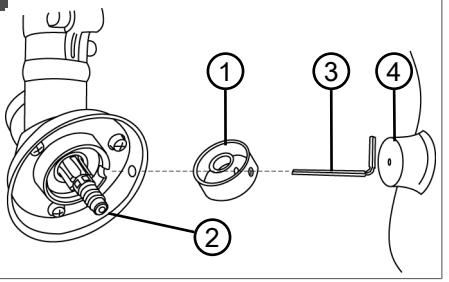

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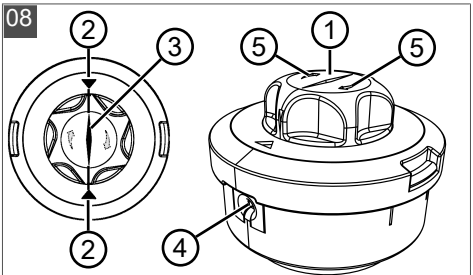

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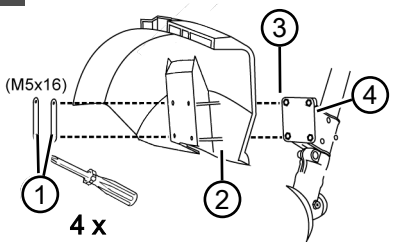

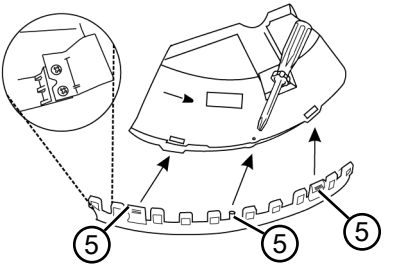

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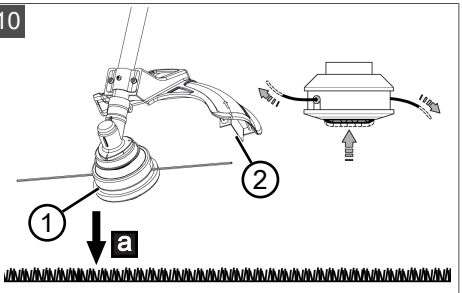

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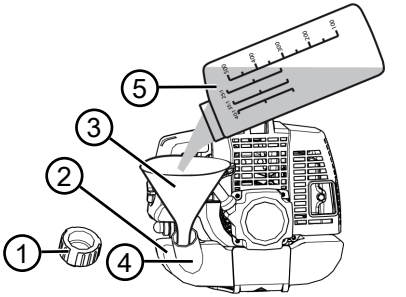

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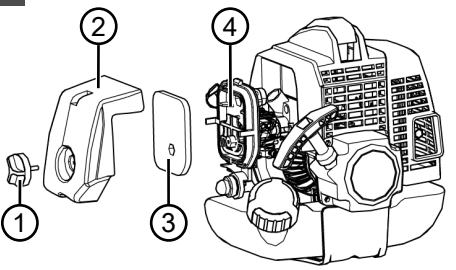

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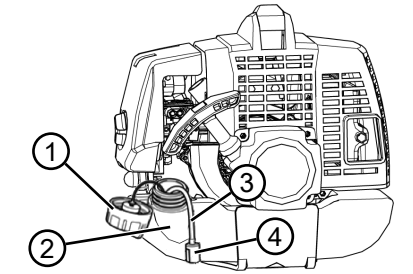

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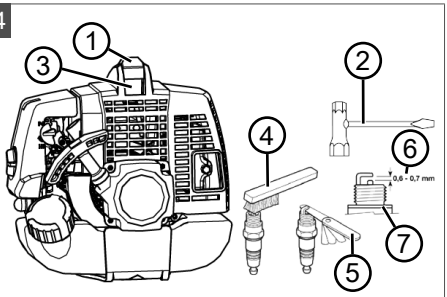

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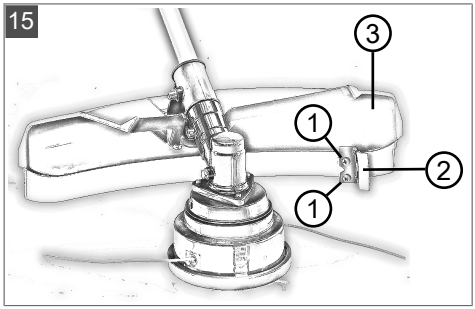

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1 ABOUT THESE OPERATING INSTRUCTIONS

- The German version is the original operating instructions. All additional language versions are translations of the original operating instructions.
- Keep these operating instructions in a safe place at all times so that they can be consulted if you need any information about the appliance.

- Only pass on the appliance to other persons together with these operating instructions.
- Comply with the safety and warning information in these operating instructions.

1.1 Symbols on the title page

Symbol	Meaning
	It is essential to read through these operating instructions carefully before start-up. This is essential for safe working and trouble-free handling.
	Operating instructions
	Never operate the petrol powered device in the vicinity of open flames or heat sources.

1.2 Legends and signal words

⚠ DANGER! Denotes an imminently dangerous situation which will result in fatal or serious injury if not avoided.

⚠ WARNING! Denotes a potentially dangerous situation which can result in fatal or serious injury if not avoided.

⚠ CAUTION! Denotes a potentially dangerous situation which can result in minor or moderate injury if not avoided.

IMPORTANT! Denotes a situation which can result in material damage if not avoided.

NOTE Special instructions for ease of understanding and handling.

2 PRODUCT DESCRIPTION

2.1 Intended use

The brushcutter is intended for cutting soft grass and similar vegetation. The brushcutter must be guided parallel to the ground.

The brushcutter is available in two versions; observe the instruction steps appropriate to your brushcutter:

- MT40BH : Brushcutter with “Bike” handle

Only work with the trailer when it is fully assembled.

This trailer is intended solely for use in non-commercial applications. Any other use (as well as unauthorised conversions or add-ons) are regarded as contrary to the intended use and will result in exclusion of the warranty as well as loss of conformity (CE mark); the manufacturer will thus decline any responsibility for damage and/or injury suffered by the user or third parties.

2.2 Possible foreseeable misuse

- Do not cut any shrubs, hedges, trees or flowers.
- Do not lift the attachment off the ground during operation.
- Do not use the brushcutter with anything other than the OEM cutting tools.

2.3 Residual dangers

Even during correct use of the appliance, there is always a certain residual risk that cannot be excluded. Depending on the use, the following potential risks can be derived from the type and construction of the appliance:

- Throwing out of cuttings, soil and small stones
- Throwing out of cut-off parts of the cutting line
- Inhalation of cuttings particles if no breathing protection is worn.
- Damage to the hearing if no hearing protection is worn.
- Cutting injuries when reaching into the rotating cutting line or the rotating blade

2.4 Safety and protective devices

⚠ WARNING! Risk of injury. Defective and disabled safety and protective devices can result in serious injury.

- Have any defective safety and protective devices repaired.
- Never disable safety and protective devices.

Emergency stop

In an emergency, switch off the engine with the on/off switch.

Guard plate

The guard plate protects the operator from contact with the rotating cutting line and objects that are thrown out.

Loop handle with spacer

The "loop" handle ensures that the operator's feet do not get into the vicinity of the rotating cutting line.

2.5 Symbols on the brush cutter

Symbol	Meaning
	Exercise caution when handling the device!
	Read the operating instructions before use!
	Wear a protective helmet, ear defenders and eye protection!
	Wear sturdy shoes!
	Wear protective gloves!
	Danger due to objects being thrown out!
	The distance between the attachment and persons not involved in the work must be at least 15 m in the entire area around the user.
	Danger during tool run-down.
	On no account may the brush cutter be operated with a saw blade!

Symbol	Meaning
	Hot surface. Do not touch!
	Danger of fire! Pay special attention when handling petrol!

2.6 Scope of supply

The items listed here are included in the standard scope of supply. Check that all items are present:

- Allen key
- Spark plug spanner
- Cotter pin (04/8)
- Allen screws
- 3-toothed blade
- Fast and Easy spool head, including spool
- Fuel mixing bottle
- Carrying strap

2.7 Product overview (01)

MT40BH

No.	Component
1	Spool head
2	Angle-drive gearbox
3	Guard plate with line cutter
4	“Bike” handle
5	Shaft
6	Combination handle with:
7	■ ON/OFF switch for engine (START/STOP)
8	■ Locking button
9	■ Throttle lever
10	Engine block with:
11	■ Air filter housing
12	■ Air filter screw
13	■ Fuel tank
14	■ Cap of the fuel tank
15	■ Starter handle
16	■ Spark plug cover

No.	Component
17	■ Choke lever
18	■ Primer

2.8 Approved cutting tools

Only the OEM cutting tools listed here may be used:

- Fast and Easy Semiprofi spool head 115 mm: Article No.127619
- Fast and Easy Profi spool head 130 mm: Article No. 127620
- 3-toothed blade: Article No. 112906

⚠ DANGER! Danger from cutting tools!
Non-approved cutting tools (e.g. multi-part metallic cutting tools with revolving chains and blades) and damaged cutting tools (e.g. cracks, spalling) can result in very serious injuries or even death.

- Use only the approved OEM cutting tools.
- Replace damaged cutting tools immediately.

3 SAFETY INSTRUCTIONS

⚠ CAUTION! Danger of hearing damage.
The appliance is extremely loud during operation. This can cause hearing damage to the operator and to persons and animals in the vicinity.

- Only work when wearing hearing protection.
- Maintain a safe distance to persons or animals, or switch off the appliance if persons or animals approach.

NOTE It is essential to familiarise yourself with the operation of the appliance. In particular, learn how the appliance can be immediately stopped.

3.1 Operator

- Young people under 16 years of age and people who do not know the operating instructions are not allowed to use the tool. Heed any country-specific safety regulations concerning the minimum age of the user.
- If you are working with such an appliance for the first time: Have the salesperson or another expert explain the operation of the appliance. Or attend a course.
- To operate the appliance, you must be rested and in good physical and mental health. If you must not exert yourself for health reasons, ask your doctor whether it is possible to work with this appliance.
- Do not operate the appliance if you are under the influence of alcohol, drugs or medication.

3.2 Personal protective equipment

- Wear clothing and protective equipment in accordance with the regulations in order to avoid injuries to the head and limbs, as well as to avoid hearing impairment.
- The clothing must be appropriate (tightly fitting) and must not restrict movements.
- The personal protective equipment comprises:
  - Hearing protection (e.g. ear defenders, especially when working for than 2.5 hours a day)
  - Protective glasses
  - Sturdy working gloves, vibration and shock absorbent

- Safety boots with high-grip sole and steel toe caps

3.3 Work area safety

- Only operate the appliance out of doors and never in enclosed spaces.
- Only work during daylight or under very bright artificial light.
- Before working, Remove any dangerous products and objects from the working area, e.g. branches, broken glass, sharp-edged objects, pieces of metal, stones, before starting work.
- Make sure you are standing safely. Avoid wet, slippery ground.
- When working, move cautiously and slowly. Do not run. Watch out for obstacles.

3.4 Appliance safety

- Only use the appliance under the following conditions:
  - The appliance is not dirty, especially not with petrol and oil.
  - The appliance show no signs of damage, especially the protective grille.
  - All controls function properly.
  - All accessory parts intended for the respective operating mode are fitted on the appliance.
- Do not force the power tool. It is intended for light work in the private sector. Overload can lead to damage to the appliance.
- Never block the vacuum and ventilation grille during operation in order to avoid any overheating of the engine.
- Immediately switch off the appliance if the engine begins to vibrate abnormally or strongly. There is an appliance fault in this case.
- Never operate the appliance with worn or defective parts. Always replace defective parts with original spare parts from the manufacturer. If the appliance is operated with worn or defective parts, guarantee claims against the manufacturer are excluded.

3.5 Safety of persons, animals and property

- Use the appliance only for the purposes for which it is intended. Any non-intended use can lead to injury and property damage.
- Switch on the appliance only when there are no persons or animals in the working area.
- Maintain a safe distance to persons or animals, or switch off the appliance if persons or animals approach.
- Never direct the exhaust gas jet of the engine towards persons and animals or towards inflammable products and objects.
- Do not reach into the vacuum and vent grilles when the engine is running. Injuries can occur due to rotating appliance parts.
- Always switch off the appliance when not in use, e.g. when changing the work area, during service and maintenance, and when filling with the petrol/oil mixture.
- Immediately switch off the appliance if there is an accident in order to avoid further injuries and/or property damage.
- Never operate the appliance with worn or defective parts. Worn or defective appliance parts can cause serious injuries.
- Keep the appliance out of the reach of children.

3.6 Vibration load

- Danger due to vibration
  The actual vibrations emitted during the use of the appliance may deviate from those stated by the manufacturer. Observe the following influencing factors before or during use:
  - Is the appliance being used as intended?
  - Is the material being cut or processed in the proper manner?
  - Is the appliance in a proper condition of use?
  - Is the cutting tool properly sharpened or is the correct cutting tool installed?
  - Are the handle grips and any optional vibration grips mounted, and are they firmly attached to the appliance?
- Only operate the tool at the combustion engine speed required for the respective work. Avoid using the maximum speed in order to reduce noise and vibrations.
- The noise and vibrations of the tool may increase due to improper use and maintenance. This leads to health damage. In this case, immediately switch off the tool and have it repaired by an authorised service workshop.
- The degree of stress due to vibration depends on the work to be performed or on the use of the tool. Estimate the stress and plan appropriate work breaks. This considerably

reduces stress due to vibration over the entire working time.

- Extensive use of the tool exposes the operator to vibrations, which can lead to circulatory issues ("white fingers"). To avoid this risk, wear gloves and keep your hands warm. If any symptoms of "white fingers" occur, immediately consult a physician. These symptoms include: Numbness, loss of feeling, tingling, itching, pain, reduced muscular strength, changes in the colour or condition of the skin. Normally these conditions affect the fingers, hands or pulse. The risk increases at low temperatures (below approx 10°C).
- Take long breaks during your working day so you can recover from the noise and the vibrations. Plan your work in such a way that the use of appliances that generate strong vibrations is spread over several days.
- If you notice an unpleasant sensation or discolouration of the skin on your hands when using the tool, stop work immediately. Take sufficient work breaks. Without sufficient breaks, a hand/arm vibration syndrome can occur.
- Minimise your risk of being exposed to vibrations. Maintain the tool according to the instructions in the operating instructions.
- If the tool is used frequently, contact your dealer to purchase anti-vibration accessories (e.g. handles).
- Define how the vibration load can be limited in a work plan.

3.7 Handling of petrol and oil

- Risk of explosion and fire:
  An escaping petrol/air mixture can cause an explosive atmosphere. Deflagation, explosion and fire can lead to serious and even fatal injuries if fuel is not handled properly. Observe the following:
  - Do not smoke when dealing with petrol.
  - Only handle petrol out of doors and never in enclosed spaces.
  - It is essential to heed the code of conduct stated below.
- Only transport and store petrol and oil in containers approved for that purpose. Ensure that children have no access to stored petrol and oil.
- In order to avoid ground contamination (environmental protection) when filling, ensure that no petrol or oil enters the soil. Use a funnel for filling.
- Never fill the appliance in enclosed spaces. Petrol vapours may gather at ground level, and thereby result in a deflagration or even an explosion.
- Immediately wipe any spilled petrol off the appliance and the ground. Allow textiles used to wipe off petrol to dry in a well ventilated place before disposing of them. Otherwise, sudden self-ignition may occur.
- If petrol has been spilled, petrol vapours occur. For this reason, do not start the engine at the same location and move it at least 3 m away.
- Avoid skin contact with mineral oil products. Do not inhale petrol vapours. When filling, always wear protective gloves. Change and clean protective clothing regularly.
- Ensure that your clothing does not come into contact with petrol. If petrol has got onto your clothing, change it immediately.
- Never fill the fuel tank while the engine is running or hot.

4 ASSEMBLY

⚠ WARNING! Danger if assembly is not carried out completely! Use of an incompletely assembled device can result in serious injury.

- Only use the device when it is fully assembled!
- Before switching on, check that all safety and protective devices are in place and functioning correctly!

⚠ WARNING! Risk of injury due to detaching appliance parts. Appliance parts detaching during operation can lead to serious injury.

- Attach the cutting tools so that they cannot come loose during operation.

4.1 Brushcutter assembly

4.1.1 Mounting the spool head (07)

1. Place driver plate (07/1) onto guide pin (07/2) of the angle-drive gearbox.
2. To lock, insert Allen key (07/3) into hole of driver plate (07/1).
3. Screw spool head (07/4) onto the angle-drive gearbox and tighten.
   Note: *Left-hand thread. Tighten the spool in an anti-clockwise direction.*

4.1.2 Replacing the cutting line (08)

1. Turn rotary knob (08/1) until the arrows (08/2, 08/3) are aligned.
2. Push the cutting line into opening (08/4) until the line is the same length on both sides of the spool head.
3. Wind cutting line into spool head: Turn rotary knob (08/1) in the direction of arrows (08/5) until the cutting line protrudes by approx. 10 cm from the spool head on both sides.

4.1.3 Fitting the blade (04)

⚠ WARNING! Danger of serious injury! A worn serrated washer (04/5) can allow the blade to come loose during operation and cause serious injuries.

- Be sure to insert the cotter pin (04/8) supplied.

1. Place the brushcutter so that the cutting head is pointing upwards.
2. Place driver plate (04/1) onto guide pin (04/2) of the angle-drive gearbox.
3. Place blade (04/3) onto driver plate (04/1) so that the hole in the blade lies precisely on the guide circle on the driver plate.
4. Place the flange (04/4) onto the blade (04/3) so that the flat side points towards the cutting blade.
5. Put on the serrated washer (04/5).
6. Screw the fastening nut (04/6) onto the guide pin (04/2). To do this, insert the Allen key (04/7) into the holes provided and tighten with the spark plug spanner.
   Note: *Left-hand thread.*
7. Secure the fastening nut (04/6) with the split pin (04/8).

4.1.4 Installing guard plate (09)

1. Place 2 metal tabs (09/1) against guard plate (09/2).
2. Fasten to handlebar (09/4) with 4 screws M5x16 (09/3).
3. Press hooks (09/5) into the cutterbar until they engage.

4.1.5 Installing the "Bike" handle MT40BH

1. Place spring (02/1) into the bracket in the shaft.
2. Place lower bearing shell (02/2) onto the spring.
3. Place the marked (corrugated) section of handle bar (02/3) into lower bearing shell (02/2) of the handle bracket. Upper bearing shell (02/4) must engage in lower bearing shell (02/2).
4. Fasten upper bearing shell (02/4) to lower bearing shell (02/2) using locking screw (02/5).
   Note: *The seat of the bracket can be adjust-ed individually on the shaft.*
5. Tighten locking screw (02/5).

Note: *Always guide the brushcutter to the right of your body using the "Bike" handle. Both distances are correct when the middle of the cutting head coincides with the middle of the body.*

4.1.6 Fitting the shoulder strap MT40BH

See graphic (06).

5 START-UP

NOTE Inspect the appliance for damage every day before starting work, if it is dropped or is subjected to other impacts. Have any damage repaired before putting the appliance into operation.

5.1 Mixing and pouring in the petrol/oil mixture

IMPORTANT! Danger of engine damage. Pure petrol will result in damage and complete failure of the engine. Guarantee claims against the manufacturer are excluded in this case.

- Always operate the engine using the specified petrol/oil mixture ratio.

Producing the petrol/oil mixture

The 2-stroke engine requires:

- Lead-free, fresh petrol with an octane rating of at least 90. Petrol stored for longer than 2 months will lead to deposits and malfunctions of the engine.
- High-quality synthetic oil for 2-stroke engines

Prepare a petrol/oil mixture in a ratio of 50:1 using these two constituents:

Mixing ratio	Petrol [litres]	2-stroke oil [millilitres]
50 parts petrol: 1 part 2-stroke oil	1 l	20 ml
	3 l	60 ml
	5 l	100 ml

1. Pour the petrol and 2-stroke oil into a fuel mixing bottle (quantities, see table, depending on the size of the fuel mixing bottle).
2. Close the fuel mixing bottle and shake vigorously several times so that the petrol and oil can mix thoroughly.

Pouring in the petrol/oil mixture (11)

1. Place the appliance on a level, horizontal sur-face. The cap (11/1) of the fuel tank must be facing upwards.
2. Wipe the fuel tank cap (11/1), the fuel tank (11/2) and the surrounding appliance parts clean so that no dirt can get into the fuel tank when the petrol/oil mixture is poured in.
3. Open the fuel tank cap slowly so the pressurised petrol/air mixture can slowly escape from the fuel tank into the atmosphere. Leave the cap hanging on the fuel tank.
4. Insert a funnel (11/3) into the filler neck (11/4) of the fuel tank.
5. Pour the prepared petrol/oil mixture from the fuel mixing bottle (11/5) into the fuel tank up to the lower edge of the filler neck, but not higher.
6. Remove the funnel and screw on the cap finger-tight.
7. Wipe any spilled petrol/oil mixture off the appliance and the surface.

6 OPERATION

6.1 Preparation

Before starting

- Place the trimmer level and free of obstacles on the ground. The cutting tool must not be touching any objects or the ground.

When starting

- Do not stand on the shaft to avoid damage to the shaft and/or the angle-drive gearbox inside the shaft.
- Make sure you are standing securely and hold the trimmer firmly at the housing flange.

Positions of the choke lever

	
CHOKE	RUN

Cold start

If the engine is cold, i.e. if it has not been in use for more than 5 minutes, a “cold start” is carried out.

Warm start

If the engine is still warm from use, i.e. shortly after it was switched off, a "warm start” is carried out. The choke is not used here.

6.2 Starting/stopping the engine (05)

NOTE With the "Ready to Start" function, the ON/OFF switch is always in the ON position. Push the ON/OFF switch to the OFF position to stop the brushcutter. When the switch is pressed, it returns automatically to the ON position.

NOTE Automatic resetting of the choke lever. In the event of an immediate start of the engine, the choke lever returns automatically to the RUN position when the throttle lever is pressed.

Cold start

1. Turn choke lever (05/4) to the CHOKE position.
2. Press primer (05/5) approx. 7 to 10 times briefly and firmly.
3. **Starting the engine:**
   - Press the appliance firmly onto the ground with one hand.
   - With the other hand, pull starter handle (05/6), first carefully and slowly until resistance is felt, and then firmly and quickly upwards until resistance is felt again (approx. 1 arm length).
   - Allow the starter rope to coil up again, but without releasing the starter handle.
   - Repeat the previous steps several times until the engine starts or stalls.
   - Turn choke lever (05/4) to the RUN position.
   - Press the appliance firmly onto the ground with one hand.
   - With the other hand, pull starter handle (05/6), first carefully and slowly until resistance is felt, and then firmly and quickly upwards until resistance is felt again (approx. 1 arm length).
   - Allow the starter rope to coil up again, but without releasing the starter handle.
   - Repeat the previous steps several times until the engine starts and runs smoothly.
4. Allow the engine to warm up for a few minutes.

Warm start

If the engine is still warm from use, i.e. shortly after it was switched off, a "warm start" is carried out. The choke is not used here.

1. (Optional) Turn choke lever (05/4) to the CHOKE position and then immediately back to the RUN position. Automatic half throttle is now set.
   - Press the appliance firmly onto the ground with one hand.
   - With the other hand, pull starter handle (05/6), first carefully and slowly until resistance is felt, and then firmly and quickly upwards until resistance is felt again (approx. 1 arm length).
   - Allow the starter rope to coil up again, but without releasing the starter handle.
   - Repeat the previous steps several times until the engine starts and runs smoothly.

The engine runs at idle speed.
Note: *Press the throttle lever again if the engine no longer runs smoothly.*

Stopping the engine

1. Release throttle lever (05/2) and allow the engine run at idle speed.
2. Move ON/OFF switch (05/1) to the STOP position and hold it there for a few sec-onds.
3. Wait until the cutting tool has come to a complete standstill.

6.3 Prolonging the cutting line during operation (10)

The cutting line shortens during operation and frays out.

1. Allow the engine to run at full speed.
2. Tap (10/a) the spool head (10/1) on the ground from time to time. This unwinds a piece of new cutting line from the spool and cuts off the used end of the cutting line (10/2).

7 WORKING BEHAVIOUR AND WORKING TECHNIQUE

- Make sure you are standing securely.
- Never work on a smooth, slippery hill or slope.
- When working on a slope, always stand below the cutting tool.
- Always allow the engine to run in the upper speed range during trimming and mowing, as the trimmer then cuts best.

If the cutting line jams

High grass or scrub can cause the cutting line to jam.

- Avoiding blockages: Cut long grass in several passes. Always proceed from top to bottom.
- In the event of a blockage: Switch off the engine immediately and hold the appliance in the air so that the engine is not damaged.

7.1 Trimming

- Keep the appliance away from delicate plants.

Low trimming

- Guide the cutter head with a slight forward angle so that the cutting line trims just above the ground.
- Always trim away from your body.

Trimming at fences and foundations

- Guide the appliance slowly and carefully so that the cutting line does not come into contact with solid obstacles.

NOTE Trimming around brick walls, foundations, fences and trees results in increased cutting line wear.

Trimming around tree trunks

- Guide the appliance slowly and carefully around tree trunks so that the cutting line does not touch the tree bark.
- Trim from left to right around tree trunks.
- Cut grass and weeds with the tip of the cutting line and hold the cutter head with a slight forward angle.

7.2 Mowing

- Guide the cutter head in a smooth horizontal, arc-shaped movement from one side to the other.
- Hold the cutter head parallel to the ground at all times.
- Long grass should be mown in several passes. Always proceed from top to bottom.
- The appliance cuts best at very high speed. Therefore, do not overload the appliance by cutting long grass.
- Tilt the cutter head at an angle of 30° to the right to mow with the tip of the cutting line. Walk forwards slowly.
- Do not move the appliance directly against hard obstacles (e.g. walls), but mow sideways. This protects the cutting line.

8 MAINTENANCE AND CARE

⚠ DANGER! Risk of injury or death due to improper maintenance. Maintenance work carried out by unqualified persons and the use of non-approved spare parts can result in serious injuries and even death during operation of the appliance.

- Do not remove or deactivate any safety installations.
- Use only approved OEM spare parts.
- Ensure through regular and proper maintenance that the appliance is in a clean and functional condition at all times.

⚠ CAUTION! Risk of injury. Sharp-edged and moving appliance parts can lead to injury.

- Always wear protective gloves during maintenance, care and cleaning work!

Proper maintenance and care is necessary to ensure the functionality and safety of the brushcutter. Note the following points:

- Only carry out maintenance and care work if you have the necessary knowledge and tools.
- Wait until the engine has cooled down completely.
- Only replace any worn or defective brushcutter parts with original spare parts from the manufacturer.
- Do not carry out any maintenance and care work that is not described in these instructions for use. Instruct an authorise service workshop to do this work. Any infringements will invalidate the manufacturer's warranty.

The intervals for the maintenance and care work described here can be found in the maintenance schedule.

Use only the approved cutting tools!

8.1 Cleaning/replacing the air filter (12)

IMPORTANT! Danger of engine damage. Operation of the engine without air filter will result in serious engine damage!

- Never operate the appliance without air filter.
- Clean the air filter at regular intervals.
- Replace a damaged air filter.

1. Dismantling the air filter:
   - Loosen the air filter screw (12/1) until the air filter housing cover (12/2) is loose.
   - Pull off the air filter housing cover.

- Pull the filter sponge (12/3) from the frame (12/4).

2. Cleaning the filter sponge (12/3):
   - Squeeze out the filter sponge, then wash out with soap and water. Do not use petrol or other solvents!
   - Allow the filter sponge to dry thoroughly until it contains no more water. A wet filter can make the engine difficult to start.
3. Clean the air filter housing thoroughly using a cloth.
4. Replacing the filter sponge (12/3):
   - Replace the filter sponge if it is no longer elastic or falls apart.
5. Fitting the air filter:
   - Push the filter sponge (12/3) onto the frame (12/4).
   - Push on the air filter housing cover (12/2) and hold in place.
   - Screw in the air filter screw (12/1) until the air filter housing cover is tight.

8.2 Checking/replacing fuel filter (13)

The felt-like fuel filter is located in the fuel tank and is plugged onto the vacuum head. If the fuel filter becomes hard, dirty or clogged, less petrol flows to the engine. In this case, the fuel filter must be replaced.

It is recommended that an authorised service workshop carries out this work.

8.3 Servicing the spark plug (14)

1. Removing the spark plug:
   - Remove the spark plug connector (14/1).
   - Unscrew the spark plug (14/3) using a spark plug spanner (14/2).
2. Assessing the condition of the spark plug:
   - If the spark plug is reddish-brown: The engine is working correctly and the spark plug is in order. If necessary: Carefully brush the spark plug clean using a fine wire brush (14/4).
   - If the spark plug is sooty, oily, encrusted, melted or bridged: The spark plug is defective. Replace the spark plug with a new spark plug. Use the specified spark plug type (see *chapter 13 "Technical data", page 20*).
   - If, after a short period of operation, the spark plug is defective again, the engine and the carburettor settings must be checked by an authorised service workshop.
3. Check the electrode spacing:
   - Use a feeler gauge (14/5) to check that the electrode gap (14/6) is 0.6 – 0.7 mm. If not, carefully tap the electrodes closer together or carefully bend them apart.
4. If the specified interval is reached or the spark plug is defective:
   - Replace the spark plug with a new spark plug. Use the specified spark plug type (see *chapter 13 "Technical data", page 20*).
5. Installing the spark plug:
   - Ensure the spark plug seal ring (14/7) is on the spark plug.
   - Screw in the spark plug again by hand and tighten using the spark plug spanner (torque 12 – 15 Nm).
   - Push on the spark plug connector again firmly.

8.4 Sharpening line cutter (15)

1. Unfasten the mounting screws (15/1) and remove the line cutter (15/2) from the guard plate (15/3).
2. Clamp the line cutter in a vice and sharpen it using a file. File in one direction only.
3. Re-attach the line cutter to the guard plate using the mounting screws. Tighten the mounting screws firmly.

8.5 Maintenance schedule

The following jobs are allowed to be carried out by the user independently. All other maintenance, service and repair work must be carried out in an authorised service workshop.

NOTE Shorter maintenance intervals than those stated in this table may be necessary in case of severe loading and high temperatures.

Activity	Once after 5 operating hours	Before each use	Every week	Every 50 operating hours	Every 100 operating hours	as required	Before the working season	Every 5 years
Carburettor								
check idle speed		X						
Air filter								
Clean		X						
Replace						X		
Spark plug								
check electrode gap, adjust if necessary				X				
Replace					X	X		
Cooling air inlet								
Clean			X			X	X	
Silencer								
Visual inspection for condition		X						
Fuel tank								
Clean				X			X	
Fuel filter								
Replace								X
Control elements								
ON/OFF switch, locking button, throttle lever, starter rope		X						
All accessible screws (except set screws)								
Retighten	X					X	X	
Complete appliance								
Visual inspection for condition		X						
Clean			X			X	X	

9 HELP IN CASE OF MALFUNCTIONS

⚠ CAUTION! Risk of injury. Sharp-edged and moving appliance parts can lead to injury.

- Always wear protective gloves during maintenance, care and cleaning work!
- Switch the appliance off.

NOTE For malfunctions that are not listed in this table or that you cannot resolve yourself, please contact our customer service.

Malfunction	Cause	Remedy
Engine does not start, or only starts with difficulty.	Engine start was not carried out properly.	see *chapter 6.2 "Starting/stopping the engine", page 15*
	Spark plug is dirty, defective or the electrode gap is not right.	see *chapter 8.3 "Servicing the spark plug (14)", page 17*
	Air filter is dirty.	see *chapter 8.1 "Cleaning/replacing the air filter (12)", page 16*
	Fuel filter is worn.	see *chapter 8.2 "Checking/ replacing fuel filter (13)", page 17*
	Carburettor settings are not correct.	Contact an authorised service workshop.
	Choke lever is in CHOKE position.	Move choke lever to RUN.
Engine starts, but the engine output is low.	Choke lever is in CHOKE position.	Move choke lever to RUN.
	Air filter is dirty.	see *chapter 8.1 "Cleaning/replacing the air filter (12)", page 16*
	Fuel filter is worn.	see *chapter 8.2 "Checking/replacing fuel filter (13)", page 17*
	Carburettor settings are not correct.	Contact an authorised service workshop.
Engine not running smoothly and engine speed not increasing when the throttle is applied.	Spark plug is dirty, defective or the electrode gap is not right.	see *chapter 8.3 "Servicing the spark plug (14)", page 17*
	Carburettor settings are not correct.	Contact an authorised service workshop.
Engine exhaust smoking heavily, appears blue.	Amount of oil in the petrol/oil mixture is too high.	Pour in petrol/oil mixture with correct mixture ratio. see *chapter 5.1 "Mixing and pouring in the petrol/oil mixture", page 14*
	Carburettor settings are not correct.	Contact an authorised service workshop.
Engine starts abnormally and vibrates strongly.	Brushcutter/engine parts have come loose and/or are damaged.	1. Stop engine. 2. Inspect brushcutter for damage. 3. Inspect the spark plug, see *chapter 8.3 "Servicing the spark plug (15)", page 17* 4. Contact an authorised service workshop.

10 TRANSPORT

Transporting the appliance between two working areas

1. Switch off the engine.
2. Put the transport protection onto the blade.
3. Hold the brushcutter firmly at the engine block and the handle.
4. Walk carefully to the next working area. Take care not to endanger persons or animals.

Transporting the appliance in a vehicle

1. If possible: Empty the fuel tank by allowing the engine to run.
2. Switch off the engine.
3. Put the transport protection onto the blade.
4. Ensure that the appliance cannot tip over while driving to prevent the petrol/oil mixture from running out:
   - Place the appliance on the floor of the vehicle so that the fuel tank cap is facing upwards. The fuel tank must be securely closed.
   - Fix the appliance to the floor of the vehicle.

11 STORAGE

If the appliance is not going to be used for more than 2 – 3 months, the following work is necessary to avoid any damage:

1. Empty the fuel tank:
   - Allow the engine to run until it stops itself. Then there is no longer any petrol/oil mixture in the fuel tank or carburettor and deposits cannot form.
2. Cleaning the appliance:
   - Wipe the entire appliance and accessory parts with a cleaning rag. Do not use petrol or other solvents.
   - Remove any dirt from all appliance openings (including cooling openings for the engine).
3. Oiling the cylinder:
   - Allow the appliance to cool down completely.
   - Pull off the spark plug connector and unscrew the spark plug (see *chapter 8.3 "Servicing the spark plug 17)", page 17*)
   - Drop a little oil into the spark plug opening.
   - Slowly pull on the starter handle so the piston moves and the oil is distributed in the cylinder.
   - Screw in the spark plug again tightly and push on the spark plug connector.
4. Put the transport protection onto the blade.
5. Store the device in a cool, dry place.

⚠ CAUTION! Risk of injury. If the appliance is accessible to children and unauthorised persons during storage, this can result in injury.

- Store the appliance out of the reach of children and unauthorised persons.

12 DISPOSAL

- Petrol and motor oil do not belong in household waste or the public sewer system, but should be collected and disposed of separately.
- Before disposing of the device you must empty the fuel tank and the engine oil tank!
- Packaging, equipment and accessories are made from recyclable materials, and must be disposed of accordingly.

13 TECHNICAL DATA

Article number	553374
Dry Weight	7.7 kg
Engine Type	Air-cooled 2-stroke engine, 1 cylinder
Displacement	40.2 cm^3
Maximum Engine Power	1.5 kW / 8500 rpm
Maximum Speed	11000 rpm
Idle Speed	2800 (±280) rpm

Spark Plug	L8RTC / BPMR7A / BPMR6A / RCJ6Y
Ignition	Electronic
Clutch	Centrifugal Clutch
Tank Volume (Petrol)	0.78 L
Petrol	lead-free, minimum 90 octane
Oil	Synthetic, for 2-stroke engines
Fuel Mixture Ratio (Petrol: 2-Stroke Oil)	50:1
Hand Grip	“Bike” handle
Cutting Width of the Spool (Diameter)	415mm
Diameter of the Cutting Line	2.5 mm
Diameter of the blade	255 mm
Speed of the Tool	8000 (±500) rpm

Sound Pressure Level LpA (EN ISO 22868)	
Blades	94.3 dB(A)
Spool Head	98.0 dB(A)
Measurement Uncertainty	K = 3.0 dB(A)
Measured Sound Power L_wA (EN ISO 22868)	
Blades	109.1 dB(A)
Spool Head	111.8 bB(A)
Measurement Uncertainty	K = 3.0 dB(A)
Guaranteed Sound Power	113.0 dB(A)
Measured vibration Level at Handle (EN ISO 22867)	
Blades	5.8 m/s^2
Spool Head	4.44 m/s^2
Measurement Uncertainty	k = 1.5 m/s^2

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