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Dear Customer,

Thank you for choosing a quality engineered STIHL product.

This machine has been built using modern production techniques and comprehensive quality assurance. Every effort has been made to ensure your satisfaction and troublefree use of the machine.

Please contact your dealer or our sales company if you have any queries concerning your machine.

Hans Peter Stihl

Hans Pere boul

CE



Guide to Using this Manual

Pictograms

All the pictograms attached to the machine are shown and explained in this manual

The operating and handling instructions are supported by illustrations.

Symbols in text

The individual steps or procedures described in the manual may be marked in different ways:

 A bullet marks a step or procedure without direct reference to an illustration.

A description of a step or procedure that refers directly to an illustration may contain item numbers that appear in the illustration.

Example:

Loosen the screw (1)

Lever (2) ...

In addition to the operating instructions, this manual may contain paragraphs that require your special attention. Such paragraphs are marked with the symbols described below:

Warning where there is a risk of an accident or personal injury or serious damage to property.

Caution where there is a risk of damaging the machine or its individual components.

Note or hint which is not essential for using the machine, but may improve the operator's understanding of the situation and result in better use of the machine.

Note or hint on correct procedure in order to avoid damage to the environment

Equipment and features

This instruction manual may refer to several models with different features. Components that are not installed on all models and related applications are marked with an asterisk (*). Such components may be available as special accessories from your STIHL dealer.

Engineering improvements

STIHL's philosophy is to continually improve all of its products. As a result, engineering changes and improvements are made from time to time. If the operating characteristics or the appearance of your machine differ from those described in this manual, please contact your STIHL dealer for assistance.

Therefore some changes, modifications and improvements may not be covered in this manual.

Safety Precautions



Special safety
precautions must be
observed when working
with the earth auger
because of its high torque

and the high speed of the auger in certain applications.



It is important that you read and understand the instruction manual before using your earth auger for the first time. Keep the manual in a safe place for

future reference. Non-observance of the safety precautions may cause serious or even fatal injury.

Always observe local safety regulations, standards and ordinances.

If you have never used this earth auger model before:

Have your STIHL dealer show you how to operate your earth auger or attend a special course of training in earth auger operation.

Minors should never be allowed to use an earth auger. Children, bystanders and animals should not be allowed in the area where an earth auger is in use. The earth auger user is responsible for avoiding injury to third parties or damage to their property.

Do not lend or rent your earth auger without the instruction manual. Be sure that anyone using your earth auger understands the information contained in this manual.

To operate the earth auger you must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Do not work alone -

keep within calling distance of others in case help is needed.

The user is responsible for third parties in the work area of the power drill.

Only use **augers and attachments** supplied by STIHL or explicitly approved for your earth auger model by STIHL.

Other augers and attachments must not be used because of the increased risk of accidents.

STIHL cannot accept any liability for personal injury or damage to property caused by using non-approved attachments.

Clothing and Equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Wear overalls with a cut-retardant inlay a STIHL safety

combination is recommended.

Do not wear loose-fitting garments, scarves, jewelry or anything that could restrict movement or become entangled with the drilling spindle or the work area.



Confine long hair (e.g. with a hair net or similar suitable means).



Wear steel-toed **safety boots** with non-slip soles.



Wear **safety glasses** or other suitable eye protection

Wear **sound barriers**, i.e. ear plugs or ear muffs.

Wear a **safety hard hat** to protect your head when there is a risk of head injuries from falling objects.



Wear **heavy-duty**, **non-slip gloves**, preferably made of chrome leather.

STIHL offers a comprehensive range of safety clothing and equipment.

Transporting the power tool – Always shut off the engine.

To reduce the risk of serious burn injuries, avoid touching hot parts of the machine, especially the surface of the muffler.

Transporting by vehicle: When transporting in a vehicle, properly secure your power tool to prevent turnover and damage. Empty the fuel tank to avoid any risk of spillage.

When the power tool is not in use, shut it off and put it down so it cannot endanger others.

Stop the Engine Before Refueling



Gasoline is an extremely flammable fuel. Keep clear of naked flames and fire. Take care not to spill any fuel. Do not refuel while the

engine is still hot since fuel may overflow and catch fire.

Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly and avoid fuel spillage.

Fuel your machine in a well-ventilated area, outdoors only. If you spill fuel, wipe it off the machine immediately – if fuel gets on your clothing, change immediately.

After Refueling



Tighten the fuel tank cap by hand with as much force as possible.

Unit vibrations can cause an improperly tightened

fuel cap to loosen or come off and spill quantities of fuel.

To avoid risk of serious or fatal burn injuries, check for leakage. If fuel leakage is found, do not start or run the engine until leak is fixed.

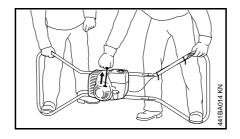
Before Starting

Unfold the handle frame and make sure it is properly locked in the working position – see "Assembling the Machine", "Mounting the Handle Frame".

Check that the machine is properly assembled and in good condition – refer to appropriate chapters in the instruction manual:

- Smooth action of throttle lever throttle lever must move freely to idle position.
- Stop switch must move easily to STOP or
- Check that spark plug boot is secure
 a loose boot may cause arcing that could ignite combustible fumes and cause a fire.
- Never attempt to modify any of the controls or safety devices.
- Handles securely mounted, dry and clean – free from oil and dirt – for safe control of the machine.

To reduce risk of accidents and personal injury, do not operate your machine if it is damaged or not properly assembled.



Starting the engine -

Start the engine at least 3 meters (10 feet) from the fueling spot, outdoors only.

Do not start the engine with the auger in the spindle. The machine must be operated by 2 persons and may be started only when it is held steady by the operating crew.

Do not allow other persons in the work area – even when starting.

For specific starting instructions, see the appropriate section in the instruction manual.

Note that the drilling spindle continues to rotate for a short period after your let go of the throttle lever (flywheel effect).

To reduce the risk of injury, never use drilling tools or augers that are longer than 1 meter.

To reduce risk of fire, keep hot exhaust gases and hot muffler away from easily combustible materials (e.g. wood chips, bark, dry grass, fuel).



Contact with electrical cables or wires can cause serious injury or death as a result of electrical shock. Before drilling,

obtain the necessary plans and permits and examine the work area.

Contact your local utility company for information as to cable and pipe locations.

Where necessary, confirm actual location by use of devices such as cable detectors and/or by carefully dug trenches.

During Operation



Warning!

Your power drill produces toxic exhaust fumes as soon as the engine is running. These fumes may be colorless and

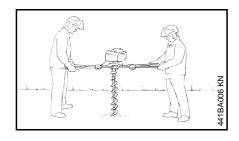
odorless. Never run the engine indoors or in poorly ventilated locations.

To reduce the risk of serious or fatal injury from breathing toxic fumes, ensure proper ventilation when working in trenches, hollows or other confined locations.



To reduce risk of fire, do not smoke while operating or standing near your power drill.

Note that combustible fuel vapor may escape from the fuel system.



The machine is operated by two persons. They must hold the handle frame firmly with both hands.

Fingers and thumbs must be wrapped tightly around the handles – thumbs downwards – both operators must have a firm and safe footing at all times.

Good and clear communications between the operators reduces the risk of injury. Instructions and directions may be given only by the person who is controlling the throttle lever.

Do not touch a hot muffler – operate the machine only with the muffler guard securely mounted in position.

Operate the machine so that it produces a minimum of noise and emissions – do not run engine unnecessarily, accelerate the engine only for drilling.

Make sure that the idle speed is properly adjusted: The drilling tool must stop rotating, after a brief delay, when you move the throttle lever to the idle position.

Check idle speed adjustment regularly. If the drilling tool rotates, have the machine checked by your STIHL dealer.

Do not allow any other persons in the work area. Keep a sufficiently safe distance away from other persons to protect them from noise and thrown debris.

Take special care in slippery conditions – damp, snow, ice, on slopes and uneven ground.

Work calmly and carefully – in daylight conditions and only when visibility is good – ensure you do not endanger others – stay alert at all times.



Work particularly carefully in rocky ground or ground with a heavy root structure. Keep feed pressure to a minimum. Hold the machine firmly to

control sudden jolts and reactive forces.

Never touch the auger or drilling spindle unless the engine is stopped.

When taking the auger out of the hole, lift the machine vertically so that the tool comes out straight without canting.

Cover and clearly mark boreholes.

Do not leave the machine unattended with the engine running. Shut off the engine before leaving the machine (e.g. work breaks).

Vibrations

Prolonged use of the unit may result in vibration-induced circulation problems in the hands (whitefinger disease).

No general recommendation can be given for the length of usage because it depends on several factors.

The period of usage is prolonged by:

- Hand protection (wearing warm gloves)
- breaks

The period of usage is shortened by:

- Any personal tendency to suffer from poor circulation (symptoms: frequently cold fingers, itching).
- Low outside temperatures.
- Gripping force (a tight grip hinders circulation).

Continual and regular users should monitor closely the condition of their hands and fingers. If any of the above symptoms appear, seek medical advice.

Maintenance and Repairs

Service the machine regularly. Do not attempt any maintenance or repair work not described in your owner's manual.

Have all other worked performed by your STIHL dealer.

Only use genuine STIHL replacement parts for repairs to the machine, including the tool mounting.

Service and store your machine in wellventilated rooms only and empty the fuel tank. Do not service or store your machine near an open fire.

Never modify your machine in any way as this could result in serious injury.

Assembling the Machine

Always shut off the engine

- before carrying out any maintenance or repairs
- before changing the drill

Check condition of drills regularly. Change damaged or dull drills immediately.

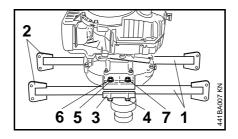
Check tightness of the fuel tank cap at regular intervals (look for leaks).

Do not touch a hot muffler. Check condition of muffler at regular intervals to reduce the risk of fires and damage to hearing. Do not operate your machine if the muffler is damaged or missing.

Use only a spark plug of the type approved by STIHL and make sure it is in good condition. Inspect ignition lead (insulation in good condition, secure connection).

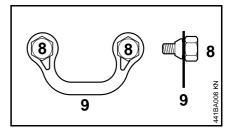
To reduce the risk of fire and burn injury as a result of sparking outside the cylinder, move the stop switch to **STOP** before turning the engine over on the starter with the spark plug boot removed or the spark plug unscrewed.

Store fuel in properly labelled, safetytype canisters only. Avoid direct contact with the skin and avoid inhaling fuel vapor.

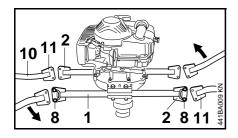


Mounting the Handle Frame

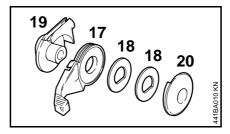
- Position the two inner sections (1) against the underside of the gearbox. Make sure the off-centre hinge plates (2) are on the outboard sides of the tubes.
- Fit the clamps (3) and line up the holes.
- Insert the hex head screws (4) from below.
- Fit the plain washers (5) and spring washers (6). Screw on the nuts (7) and tighten them down firmly.



 Fit two hex head screws (8) in each of the retainers (9) – make sure the retainer snaps into the groove in the hex head screw.

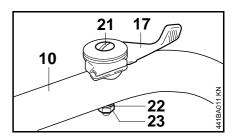


- Mount the handlebars (10) so the holes for the throttle control are on the right.
- Position the handlebar hinge plates (11) against the hinge plates (2) on the inner sections (1) and line up the holes.
- Insert and tighten down the hex head screws (8) firmly.

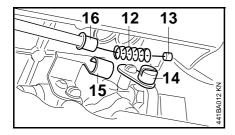


Mounting the Throttle Lever

- Fit the lever (17) and washers (18) on the guide (19) in the order shown.
- Fit the cap (20), making sure its two stop lugs engage the guide (19).

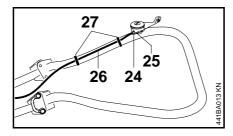


- Position the throttle lever over the hole in the handlebar (10) – check that the holes line up.
- Insert the countersunk screw (21).
- Fit the spring washer (22).
- Screw on the nut (23) and tighten it down moderately.
- The throttle lever (17) must move freely.



Fitting the Throttle Cable

- Slip the spring (12) over the nipple (13) on the throttle cable.
- Attach the nipple to the lever (14) on the carburetor.
- Push the spring (12) against the
- Pass the throttle cable through the auide (15).
- Press the throttle cable's end sleeve (16) into the guide (15) – use a screwdriver or other suitable tool if necessary.



- Fit the throttle cable nipple in the recess at the back of the throttle lever.
- Position the throttle cable in the auide.
- Push the end sleeve (24) into its seat (25) on the throttle cable.
- Secure the throttle cable (26) to the handlebar with two cable ties (27).

Fuel

Your engine requires a mixture of gasoline and engine oil.

The quality of these constituents and the mix ratio have a decisive influence on the function and service life of the engine.



Unsuitable fuels or lubricants or mix ratios other than those specified may result in serious damage to the engine (piston seizure, rapid rate of wear, etc.).

Gasoline

Use only high-quality mid-grade gasoline with a minimum octane rating of 90. If the octane rating of the midgrade gasoline in your area is lower, use premium fuel - leaded or unleaded.



For health and environmental reasons, you should give preference to unleaded gasoline.

If your machine is equipped with a catalytic converter, you must use unleaded gasoline.

A few tankfuls of leaded gasoline will greatly reduce the efficiency of the catalytic converter.

Engine Oil

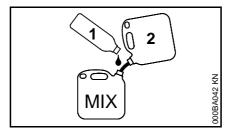
Use only quality two-stroke engine oil. We recommend STIHL two-stroke engine oil since it is specially formulated for use in STIHL engines and guarantees a long engine life.

Use only **STIHL 50:1 two-stroke engine oil** for the fuel mix in models with a catalytic converter.

If no STIHL two-stroke engine oil is available, use only quality two-stroke oil designed for use in air cooled engines. Do not use oils designed for water cooled engines or engines with a separate lubricating system (e.g. conventional four-stroke engines).

Poor quality gasoline or engine oil may damage the engine, sealing rings, hoses and the fuel tank.

Mixing Fuel



Avoid direct skin contact with gasoline and avoid inhaling gasoline vapor.

 Use a canister approved for storing fuel. Pour oil (1) into the canister first, then add gasoline (2) and mix thoroughly.

Mix Ratio

STIHL 50:1 two-stroke engine oil: 50 parts gasoline to 1 part oil

Other high-quality two-stroke engine oils:

25 parts gasoline to 1 part oil

Examples

Gaso- line	STIHL engine 50:1		Other high-quality TC oils 25:1				
Liters	Liters	(cc)	Liters	(cc)			
1	0.02	(20)	0.04	(40)			
5	0.10	(100)	0.20	(200)			
10	0.20	(200)	0.40	(400)			
15	0.30	(300)	0.60	(600)			
20	0.40	(400)	0.80	(800)			
25	0.50	(500)	1.00	(1000)			

Storing Fuel

Fuel mix ages:

Only mix sufficient fuel for a few months work. Store in approved safety-type fuel canisters in a dry and safe location.

 Thoroughly shake the mixture in the canister before fueling your machine.

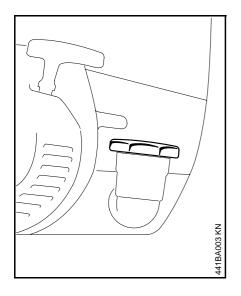
Pressure may build up in the canister – open it carefully.

 Clean the fuel tank and canister from time to time.

Dispose of remaining fuel and cleaning fluid properly in accordance with local regulations and environment requirements.

Fueling

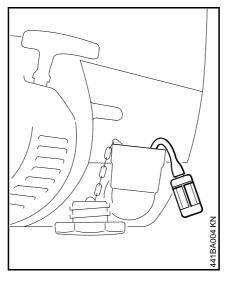




- Before fueling, clean the filler cap and the area around it to ensure that no dirt falls into the tank.
- Position the unit so that the filler cap is facing up.

Take care not to spill fuel while fueling and do not overfill the tank. STIHL recommends use of the STIHL filling system (special accessory).

After fueling, tighten down the filler cap by hand as securely as possible.

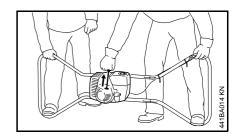


Replacing the Fuel Pickup Body

- Install a new pickup body every 12 months:
- Drain the fuel tank.
- Use a hook to pull the fuel pickup body out of the tank and take it off the hose.
- Push the new pickup body into the hose.
- Place the pickup body in the tank.

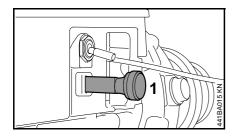
Starting / Stopping the Engine

To reduce the risk of serious accidents and injury never start the engine with the auger in the spindle.

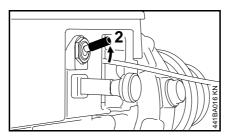


Place the machine on the ground so that it rests on the handle frame with the throttle lever at the top. Both operators must hold the handlebar steady and secure it by putting one foot through each end of the handlebar and pressing down.

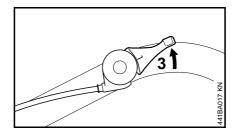
^{*} see "Guide to Using this Manual"



- Observe safety precautions see chapter "Safety Precautions".
- Pull the choke knob (1) out if the engine is cold.
 Push the choke knob (1) in if the engine is warm (also use this position if engine has been running but is still cold).

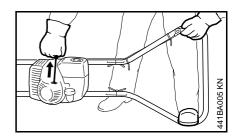


 Move the stop switch (2) away from "STOP".



Starting throttle position

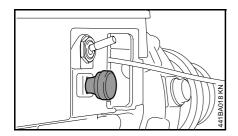
 Turn the throttle lever (3) with your left hand until it is in line with the handlebar.



- Pull the starter grip slowly with your left hand until you feel it engage – and then give it a brisk strong pull.
- Do not pull out the starter rope to full length – it might otherwise break.
- Do not let the starter grip snap back

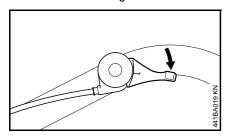
 guide it slowly and vertically into
 the housing so that the starter rope can rewind properly.

If the engine is new, pull the starter rope several times to prime the fuel system.



When engine begins to fire:

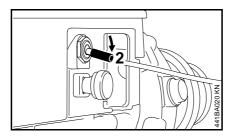
 Push in the choke knob and continue cranking.



As soon as the engine runs:

- Immediately move the throttle lever back to the idle position – the engine will settle down to idling speed.
- Make sure the carburetor is correctly adjusted the drilling spindle must not rotate when the engine is idling.

The machine is now ready for operation.



To shut down the engine:

Move the stop switch (2) to "STOP"

At very low outside temperatures: Allow engine to warm up.

If engine doesn't start:

If you did not push in the choke knob quickly enough after the engine began to fire, the combustion chamber is flooded.

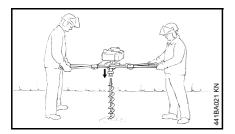
- Pull off the spark plug boot.
- Unscrew and dry off the spark plug.
- Set the stop switch to "STOP".
- Crank the engine several times with the starter to clear the combustion chamber.
- Refit the spark plug and connect the spark plug boot,
- Move the stop switch away from "STOP".
- Push in the choke knob even if the engine is cold.
- Now start the engine.

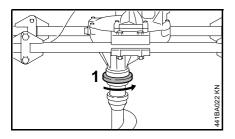
If fuel tank has been run until dry and then refueled:

 Pull the starter rope several times to prime the fuel system.

Fitting the Auger

Operating Instructions





- Hold the auger bit vertically and drop it from a height of about 50 cm so that its tip pierces the ground and stays upright.
- With the engine running at idle speed, position the powerhead on the upright auger bit. Make sure the end of the auger properly engages the drilling spindle's coupling.
- Lock the auger in the drilling spindle by rotating the clamp ring (1) one quarter turn counterclockwise.

During Break-in Period

A factory new machine should not be run at high revs (full throttle off load) for the first three tank fillings. This avoids unnecessary high loads during the break-in period. As all moving parts have to bed in during the break-in period, the frictional resistances in the engine are greater during this period. The engine develops its maximum power after about 5 to 15 tank fillings.

During Operation

After a long period of full-throttle operation, allow engine to run for a while at idle speed so that the heat in the engine can be dissipated by the flow of cooling air. This protects enginemounted components (ignition, carburetor) from thermal overload.

After Finishing Work

Storing for a short period:
Wait for engine to cool down. Store the machine with a full fuel tank in a dry place well away from sources of ignition until you need it again.
Storing for a long period:
see chapter "Storing the Machine".

Working with Shaft Extension (special accessory)

Do not fit the shaft extension until the full length of the auger is in the hole.

Δ

Starting a hole with the shaft extension fitted increases the risk of personal injury because the unit is then at chest height and cannot be kept properly under control.

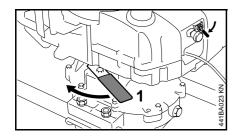
For the same reason the shaft extension must be removed before the auger is pulled out of the hole.

Inspection by a Specialist

If the machine is used commercially, it must be inspected at least once a year by a specialist, e.g. STIHL dealer, to ensure it is in good and safe working order.

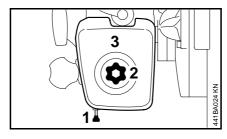
Releasing a Trapped Auger

Cleaning the Air Filter



If the auger jams in the hole – shut off the engine immediately:

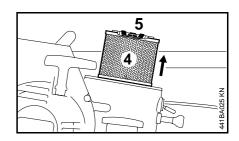
- Move the stop switch to STOP
- Pull the interlock lever (1) to the left to block the gearbox.
- Rotate the whole machine counterclockwise to unwind the auger from the ground.
- The interlock lever is designed to disengage automatically if a given maximum unwinding torque is exceeded. This reduces the risk of damaging the drilling gear.



Dirty air filters reduce engine power, increase fuel consumption and make starting more difficult.

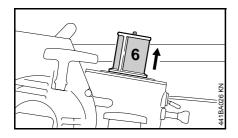
If there is a noticeable loss of engine power:

- Pull out the choke knob (1).
- Loosen the twist lock (2) on the filter cover.
- Remove the filter cover (3).
- Clean away loose dirt from around the filter and inside the filter cover.



- Inspect the main filter (4) if it is dirty or damaged, unscrew the end cover (5) with wingnut.
- Remove and replace the main filter.
- Always install a new auxiliary filter together with the new main filter.

Adjusting the Carburetor



- Inspect the auxiliary filter (6) if it is dirty, knock it out on the palm of your hand – if it is damaged, install a new one.
- When removing the auxiliary filter take care to ensure that no dirt falls into the intake.
- Clean the filter box reassemble all filter components.
- Fit the filter cover.
- Tighten down the twist lock.
- Push in the choke knob.

General Information

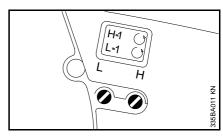
Your carburetor comes from the factory with a standard setting.

This setting provides an optimum fuel-air mixture under most operating conditions.

It ensures your machine will deliver maximum power, be fuel efficient and operate reliably.

If the setting is too lean there is a risk of engine damage due to insufficient lubrication and overheating.

Standard Setting

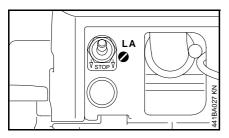


- Shut off the engine.
- Remove the auger.
- Check the air filter and replace if necessary.
- Check the spark arresting screen* in the muffler – clean or replace it if necessary.
- Carefully screw both screws down onto their seats.
- Open the high speed screw (H) one full turn.
- Open the low speed screw (L) on full turn.

^{*} see "Guide to Using this Manual"

Checking the Spark Plug

Adjusting Idle Speed



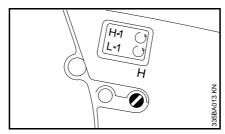
Engine stops while idling

- Carry out standard setting with the low speed screw (L).
- Turn the idle speed screw (LA) clockwise until the drilling spindle begins to rotate – then back it off 1/2 a turn.

Drilling spindle rotates when engine is idling

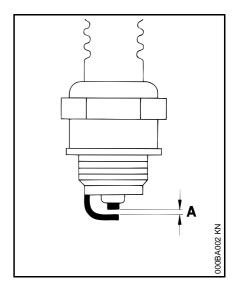
- Carry out standard setting with the low speed screw (L).
- Turn the idle speed screw (LA) counterclockwise until the drilling spindle stops rotating – then turn the screw another 1/2 turn in the same direction.

Fine Tuning for Operation at High Altitude



A slight correction may be necessary if engine power is not satisfactory:

- Check standard setting.
- Warm up the engine.
- Adjust idle speed correctly.
- Turn the high speed screw (**H**) clockwise (leaner).



If engine is down on power, difficult to start or runs poorly at idle speed, first check the spark plug.

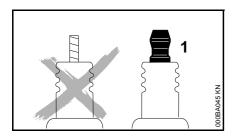
- Remove the spark plug see "Starting / Stopping the Engine".
- Clean dirty spark plug.
- Check electrode gap (A) and readjust if necessary – see "Specifications".

Gearbox Lubrication

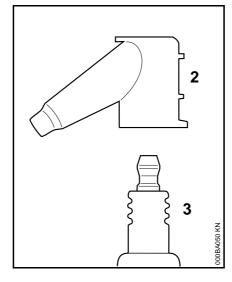
- Rectify the problems which have caused fouling of spark plug:
- To much oil in fuel mix.
- Dirty air filter.
- Unfavorable running conditions.
- Fit a new spark plug after about 100 operating hours – or sooner if the electrodes are badly eroded.

Install only suppressed spark plugs of the type approved by STIHL – see "Specifications".

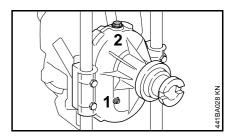
To reduce the risk of arcing and fire:



 If the spark plug comes with a detachable adapter nut (1), screw it on firmly.



- On all spark plugs:
- Always press the boot (2) firmly on to the spark plug (3).



Use a mildly alloyed gear oil (see "Special Accessories") for lubrication of the gearbox.

Checking Oil Level

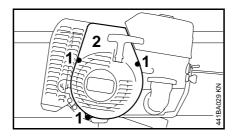
- Check the oil level regularly once a week in normal operating conditions.
- Remove the auger.
- Position the gearbox vertically so that the drilling spindle is horizontal and the throttle trigger is at the top.
- Take out the inspection plug (1) if the oil level does not come up to the bottom edge of the hole, take out the filler plug (2) and top up with oil until it reaches the bottom edge of the inspection hole.
- Fit inspection and filler plugs with sealing rings and tighten down firmly.

Replacing the Starter Rope and Rewind Spring

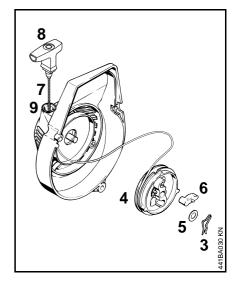
Changing Gearbox Oil

- The drilling spindle must point vertically downwards. Drain the oil while it is at normal operating temperature.
- Take out the inspection plug (1).
- Fill the gearbox with fresh oil as described under "Checking Oil Level".

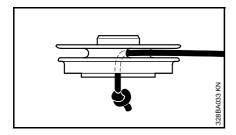
Replacing the starter rope



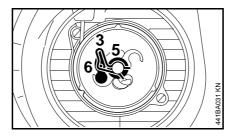
- Take out the screws (1).
- Remove the fan housing (2) from the crankcase.



- Use a screwdriver or suitable pliers to carefully remove the spring clip (3) from the starter post.
- Remove the rope rotor (4) together with the washer (5) and pawl (6).
- Use a screwdriver to lever the starter rope (7) out of the grip (8).
- Remove the remaining rope from the rotor and starter grip.

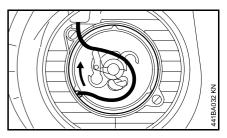


- Thread the new starter rope (see "Specifications") through the top of the grip and the rope bush (9).
- Pull the rope through the rotor secure it with a simple overhand knot.
- Push the the rotor onto the starter post – turn it back and forth until the rewind spring anchor loop engages.



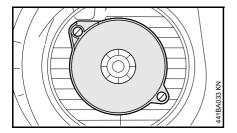
- Refit the pawl (6) in the rope rotor.
- Fit the washer (5) on the starter post.
- Use a screwdriver or suitable pliers to fit the spring clip (3) on the starter post and over the guide peg on the pawl – the spring clip must point clockwise, as shown in the illustration.

Tensioning the rewind spring



- Make a loop in the unwound starter rope and use it to turn the rope rotor six full revolutions in the direction of the arrow.
- Hold the rotor steady straighten the twisted rope – release the rotor.
- Let go of rope slowly so that it winds onto the rotor.
- The starter grip must be firmly seated in the rope guide bush.
 If the grip droops to one side: Add one more turn on rope rotor to increase spring tension.

- When the starter rope is fully extended it must be possible to rotate the rotor another half turn. If this is not the case, the spring is overtensioned and could break. Take one turn of rope off the rotor.
- Fit the fan housing.



Replacing the rewind spring

- Remove the rope rotor as described under "Replacing the starter rope".
- Remove the screws from the fan housing, take out the spring housing and parts of the old spring.
- Install the new spring housing bottom plate upwards – engage outer spring loop on lug.

Storing the Machine

- Refit the rope rotor.
- Tension the rewind spring.
- Fit the fan housing.
- If the spring pops out and uncoils, refit it in the counterclockwise direction, starting outside and working inwards:

For periods of about 3 months or longer:

- Remove the drilling tool.
- Drain and clean the fuel tank in a well-ventilated area.
- Dispose of remaining fuel and cleaning solution properly in accordance with local environmental requirements.
- Run the engine until the carburetor is dry, this helps prevent the carburetor diaphragms sticking together.
- Thoroughly clean the machine, pay special attention to the cylinder fins and air filter.
- Store the machine in a dry, high or locked location – out of the reach of children and other unauthorized persons.

Maintenance Chart

Please note that the following maintenance intervals apply for normal operating conditions. If your daily working time is longer than normal or conditions are difficult (very dusty work area, etc.), shorten the specified intervals accordingly.		before starting work	after finishing work or daily	after each refueling stop	weekly	monthly	yearly	if problem	if damaged	as required
Complete machine	Visual inspection (condition, leaks)	х		х						
	Clean		Х							
Throttle lever	Check operation	Х		Х						
Interlock lever	Check operation	Х		Х						
Air filter (auxiliary filter)	Clean							Х		
air filter (main and auxiliary filters)	Replace								Х	Х
Filter in fuel tank	Check							х		
	Replace						х			х
Fuel tank	Clean					Х				
Colling air intakes	Clean		х							
Cylinder fins	Clean		Х							
Carburetor	Check idle adjustment – drilling spindle must not rotate	х								
	Readjust idle									Х
Spark plug	Readjust electrode gap							Х		
Spark arresting screen in muffler ¹⁾	Inspect		Х							
Spark arresting screen in muller	Clean or replace									Х
All accessible screws and nuts (not adjusting screws)	Retighten									х
Gearbox	Check oil level				Х					Х
	Change gearbox oil						Х			
Drilling spindle	Clean		Х							
A / de:III: a	Inspect	Х								
Auger/drilling tool	Replace									Х

1) STIHL dealer

Minimize Wear and Avoid Damage

Observing the instructions in this manual helps reduce the risk of unnecessary wear and damage to the power tool.

The power tool must be operated, maintained and stored with the due care and attention described in this owner's manual.

The user is responsible for all damage caused by non-observance of the safety precautions, operating and maintenance instructions in this manual. This includes in particular:

- Alterations or modifications to the product not approved by STIHL.
- Using tools or accessories which are neither approved or suitable for the product or are of a poor quality.
- Using the product for purposes for which it was not designed.
- Using the product for sports or competitive events.
- Consequential damage caused by continuing to use the product with defective components.

Maintenance Work

All the operations described in the "Maintenance Chart" must be performed on a regular basis. If these maintenance operations cannot be performed by the owner, they should be performed by a servicing dealer.

STIHL recommends that you have maintenance and repair work carried out only by an authorized STIHL servicing dealer. STIHL servicing dealers are able to attend regular training courses and receive technical information bulletins on the latest engineering changes.

If these operations are not carried out as specified, the user assumes responsibility for any damage that may occur. Among other things, this includes:

- Damage to the engine due to neglect or deficient maintenance (e.g. of air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
- Corrosion and other consequential damage resulting from improper storage.
- Damage to the product resulting from the use of poor quality replacement parts.

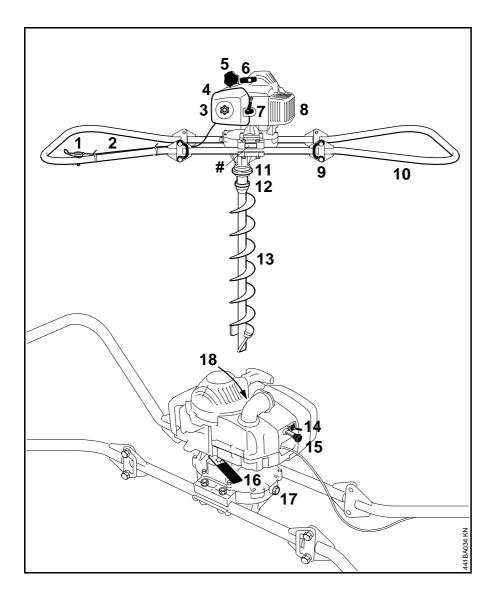
Parts Subject to Wear and Tear

Some parts of the power tool are subject to normal wear and tear even during regular operation in accordance with instructions and, depending on the type and duration of use, have to be replaced in good time.

Among other parts, this includes:

- Clutch
- Augers
- Filters (air, fuel)
- Starter mechanism
- Spark plug
- Components of anti-vibration system

Main Parts and Controls



- 1 Throttle lever
- 2 Throttle cable
- 3 Twist lock
- 4 Air filter
- 5 Fuel filler cap
- 6 Starter grip
- 7 Spark plug boot
- 8 Muffler
- 9 Retainer
- **10** Handle frame (collapsible)
- 11 Clamp ring
- 12 Drilling spindle
- 13 Auger

- 14 Stop switch
- 15 Choke knob
- 16 Interlock lever (gearbox)
- 17 Filler plug (gearbox)
- 18 Carburetor adjusting screws
- # Serial number

Specifications

Engine

STIHL single cylinder two-stroke engine

Displacement	60.3 cm ³
Bore	49 mm
Stroke	32 mm
Engine power	3 kW
to ISO 8893	(4.1 bhp)
Max. engine speed	
without auger	9,500 rpm
Idle speed	2,500 rpm

Continuous sound pressure level Lpea

to ISO 6081¹⁾ 99 dB (A)

Sound power level

L_{weq} to ISO 3744 ¹⁾ 112 dB (A)

Vibration measurement to ISO 8662 Idle speed:

Left handle 2.3 m/s^2 Right handle 2.6 m/s^2

Vibration measurement to ISO 8662 Maximum RPM:

Left handle 10 m/s^2 Right handle 9.9 m/s^2

 Weighted equivalent value includes idling and racing with the same duration of exposure

Ignition System

Type

Electronic magneto ignition (breakerless)

Spark plug (suppressed)

Bosch WSR 6 F, NGK BPMR 7 A or Champion RCJ 6 Y (not for all markets)

Electrode gap

0.5 mm

Spark plug thread

M 14 x 1.25; 9.5 mm long

Fuel System

Carburetor

All position diaphragm carburetor with integral fuel pump

Air filter

Large area main filter (paper filter cartridge) and flocked auxiliary filter

Fuel tank capacity 0.55 I (550 cm³)

Fuel mix

see chapter "Fuel"

Drilling Gear

Type

Three-stage spur gear drive

Gear ratio

151:1

Max. spindle speed

50 rpm

Max. torque at drilling spindle

516 Nm

Lubrication

EP 90 (SAE 90) mildly alloyed gear oil

Oil capacity

0.5 I (500cm³)

Weight

Without auger

25.9 kg

Dimensions

Length of handle frame

approx. 1715 mm

Length, folded approx. 620 mm

Width of handle frame

approx. 635 mm

Height without auger

approx. 485 mm

Starter rope

4.5 mm diameter 1122 190 2900

Maintenance and Repairs

Certificate of Conformity

Augers

Diameters 90 to 350 mm

Drilling depth

to approx. 3 m, depending on auger diameter and soil conditions

Special Accessory

Shaft extension 500 and 1000 mm long Users of this machine may only carry out the maintenance and service work described in this user manual.

All other repairs must be carried out by a servicing dealer.

STIHL recommends that all maintenance and repair work be carried out by an authorized STIHL dealer. STIHL dealers regularly attend training courses and are supplied with the necessary technical information.

When repairing the machine, only use replacement parts which have been approved by STIHL for this power tool or are technically equivalent. Only use high-quality replacement parts in order to avoid the risk of accidents or damage to the machine.

STIHL recommends the use of genuine STIHL replacement parts.

Original STIHL parts can be identified by the STIHL part number, the **STIHL** logo and the STIHL parts symbol **G**. The symbol may appear alone on small parts.

Andreas Stihl AG & Co. KG Badstr. 115 71336 Waiblingen

certify that the new machine described below

Category: Earth Auger
Make: STIHL
Model: BT 360
Serial identification: 4308

conforms to the specifications of Directives 98/37/EC and 89/336/EEC.

The product has been developed and manufactured in compliance with the following standards:

This houses

EN 292, EN 55012, EN 61000-6-1

Waiblingen, 01/09/2003

Andreas Stihl AG & Co. KG

Steinhauser Director Group Product Management Engineering Services

Quality Certification



All STIHL products comply with the highest quality standards.

An independent organization has certified that all products manufactured by STIHL meet the strict requirements of the ISO 9001 standard for quality management systems in terms of product development, materials purchasing, production, assembly, documentation and customer service.