# C99 HATZ

## OPERATING INSTRUCTIONS AND SPARE PARTS LIST

# 1 Basic Safety Instructions

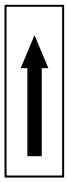
The C99 is exclusively designed for the cutting of floors made of asphalt, green and cured concrete (reinforced or not) as well as of industrial cement.
Uses other than the manufacturer's instructions shall be considered as contravening the regulations. The manufacturer shall not be held responsible for any resulting damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

## *1.1 Symbols*

Important warnings and pieces of advice are indicated on the machine using symbols. The following symbols are used on the machine:

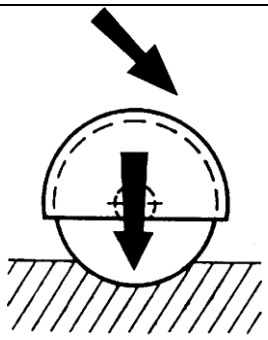
Read operator's instructions

Ear protection shall be worn

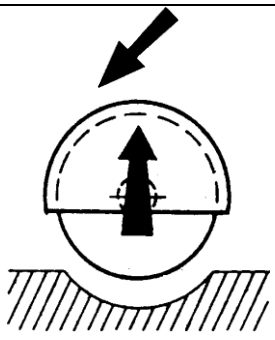


Rotation direction of the blade

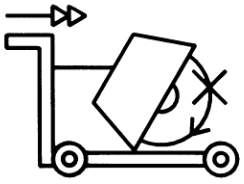

Emergency Stop



Rotation of the wheel in the indicated direction lowers the blade



Rotation of the wheel in the indicated direction raises the blade

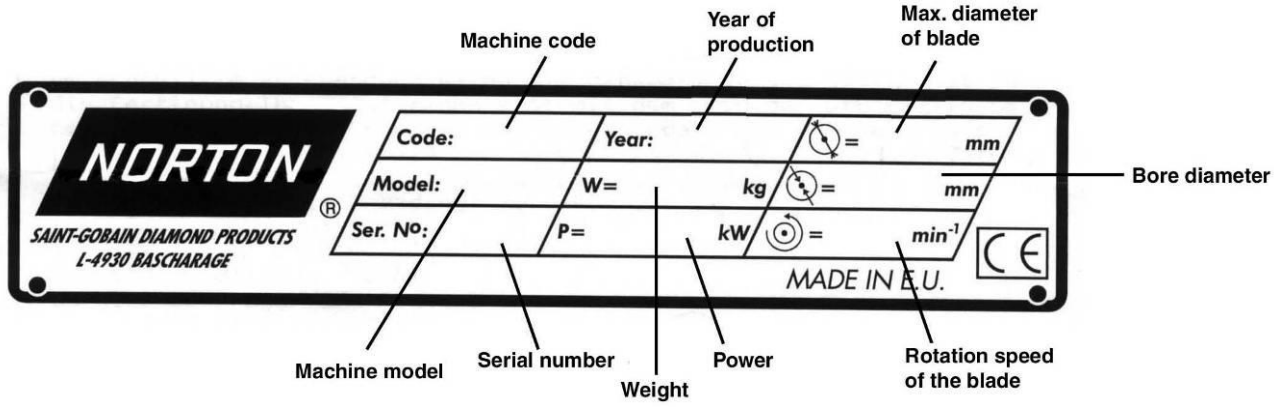


Never move the machine with the blade running idle.

Rotation direction of the blade

## *1.2 Machine plate*

Important data can be found on the following plate located on the machine:




## *1.3 Safety instructions for particular operating phases*

**Before commencing work**

- Before commencing work, make yourself familiar with the working environment at the place of use. The working environment includes: obstacles in the area of work and manoeuvre, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.
- Check for correct mounting of the blade regularly.
- Immediately remove damaged or badly worn blades, as they endanger the operator whilst rotating.
- Always cut with the blade guard in position.
- Only fit NORTON diamond blades to the machine! The use of other tools can damage the machine!
- Attention is drawn to the use of BS2092 safety goggles in conformity with specified Processes No.8 of the Protection of Eyes Regulation 1974, Regulation 2(2) Part 1.
- For security reasons, never leave the machine unattended, untied or unlocked.

**While the engine is running**

- Do not move the machine whilst the blade is running idle.
- Do not run the machine without the security guards in place.
- Apply cooling water continuously whilst cutting and in good time!

**Petrol powered machines:**

- Always use the fuel advised.
- In confined areas, exhaust gases should be evacuated and the job site properly aerated.
- Petrol and diesel machines, which by their nature emit toxic exhaust gases, must not be used in places prohibited by the Health at Work etc. Act 1974 or which are prohibited by Factory Inspectors or Safety Officers.
- Fuel is flammable. Before filling the tank, shut down the engine, extinguish all open flames and do not smoke. Take care that no petrol is spilled on any motor part. Always wipe up spilled fuel.

# 2 General description of the C99

Any modification, which could lead to a change in the original characteristics of the machine, may be done only by Saint-Gobain Abrasives S.A. who shall confirm that the machine is still in conformity with the safety regulations. Saint-Gobain Abrasives S.A. keeps the right of making technical or design modification without prior notification.

## *2.1 Short description*

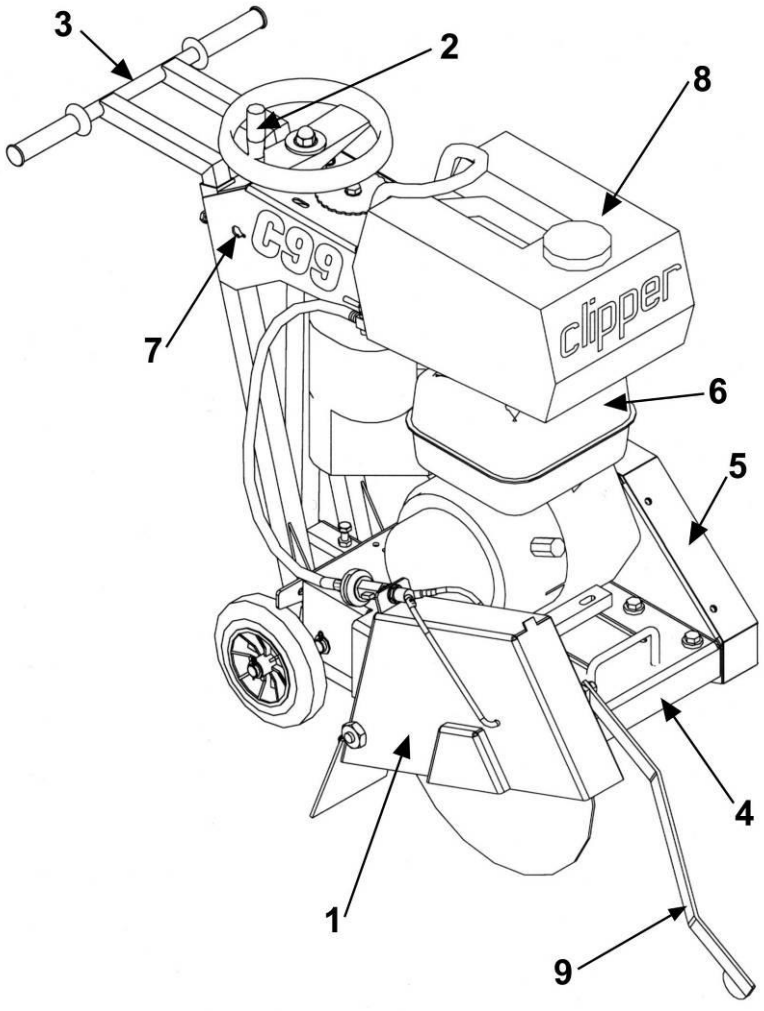
The ***Floor Saw C99*** you have chosen is used for small repair works in concrete and asphalt, for cutting induction loops and installing cables as well as for cutting expansion joints. It can be used for either wet or dry cutting operations.

Being of small construction, it can be transported in a car or van; the handle can be removed, reversed or retracted. The water container is also removable.

All component parts on the ***C99*** are assembled to a high quality standard, ensuring long life, reliability and a minimum of maintenance.

Special types of blades are available for asphalt, green concrete, cured concrete (reinforced or not) as well as for industrial cement flooring.

## *2.2 Layout*



Made of jig welded open profile steel, the ***C99*** is stable but at the same time, easily transportable.

The one-piece blade guard (1) fully protects the operator and his working environment. It is firmly fixed to the main frame but can be opened by rotation to change blades.

A manually operated hand wheel mechanism (2) enables graduated depth setting. Turning the hand wheel clockwise or anti-clockwise will lower or raise the cutting blade. A depth gauge allows the operator to control precisely the depth of cut.

The handle (3) is detachable or can be reversed for easy transportation. The height is adjustable.

The pivoting frame (4), hinged on the rear axle, is supporting the engine, the blade shaft assembly, and the protecting guards. Four heavy-duty belts drive the blade.

The precisely manufactured blade shaft is fitted into two heavy-duty self-aligning pillow block bearings, including grease nipples. A four-belt taper lock pulley is fitted on one end. The shaft is reduced to 25,4mm at the other end, allowing an inner flange complete with dowel pinholes to be fixed.

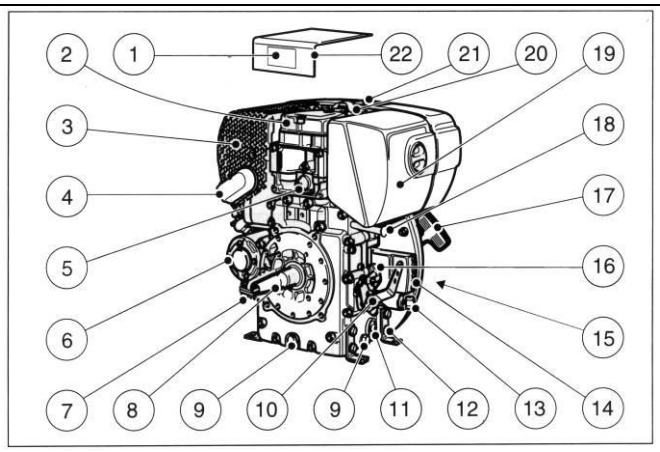
The steel belt guard (5) is a sealed two piece unit. The backing plate is bolted to the mainframe of the machine and locking nuts are welded to it. The outer guard, covering the four drive belts and taper lock pulleys, is held in place by four locking bolts.

A spacer flange, 20mm in thickness and an outer flange, both with dowel pinholes, are provided. They are held with a 36mm locking nut.

The water cooling system (8) is composed of a 20 litres water tank, a water tank tap and two water nozzles located on the blade guard ensuring adequate flow of water to both sides of the cutting blade.

The pointer (9) allows the operator to make precise cut easily.

The HATZ 1B30 diesel engine (6) is connected to a speed regulation handle (7) on the right hand side of the machine. This handle is also used to shut the machine down in case of emergency. The engine is started using recoil starter. The following picture is showing the different parts of your engine that you need to know in order to use and maintain your machine correctly:




| | | | | | |
|---|---|---|---|---|---|
| 1. | Type plate | 9. | Oil drain plug | 16. | Oil filler cap and dipstick |
| 2. | Cylinder head cover | 10. | Speed adjustment lever | 17. | Recoil starter |
| 3. | Exhaust silencer | 11. | Oil filter | 18. | Engine shutdown pin |
| 4. | Exhaust mesh insert | 12. | Engine mountings | 19. | Dry-type air cleaner |
| 5. | Oil pressure switch | 13. | Ignition key | 20. | Lifting lug |
| 6. | Starter motor | 14. | LED display | 21. | Fuel tank cap |
| 7. | Voltage regulator | 15. | Intake opening for cooling and combustion air | 22. | Noise insulating hood |
| 8. | Crankshaft – power take-off | | | | |

## *2.3 Technical data*

| | |
|---|---|
| Engine | Hatz 1B30, 7HP (5kW) |
| Fuel | Diesel complying with the following minimum specifications : **EN590** or **DIN15601 – DK** or **BS 2869 A1/A2** or **ASTM D975 – 1D / 2D** |
| Oil (Motor) | Oil complying with the following minimum specifications: **CCMC – D4 – D5 – PD2** or **API – CD – CE – CF – CG** or **SHPD** Viscosity recommended : SAE 10W-30 (outside temperature between -5ºC and 35ºC) |
| Bore | 25,4 mm |
| Max. blade diameter | 450 mm |
| Max. cutting depth mm | 165 mm |
| Flange diameter | 108 mm |
| Blade shaft speed | 2850 $min^{-1}$ |
| Driving belts | 4 |
| Water tank | 20 l |
| Machine dimensions (length x width x height) | 1160 x 512 x 990 mm in cutting configuration |
| Weight | 107 kg |
| Max. operating weight | 130 kg |
| Sound pressure level | 91 dB (A) (ISO EN 11201) |
| Sound energy level | 110 dB (A) (ISO EN 3744) |

# 3 Assembly and commissioning

Before beginning the work with the C99, you have to assemble some parts.

## *3.1 Operator's handle assembly*

Secure the operator's handle in a comfortable user position by using the locking nut.

## *3.2 Tool assembly*

Only use NORTON blades with the C99.
A blade with a maximum diameter of 450 mm can be fitted. All tools used must be selected with regard to their maximum permitted cutting speed for the machine's maximum permitted rotation speed.
Before mounting a new blade, switch the machine off.

To mount a new blade, follow these steps:

- Turn the wheel until the cutting head is in the raised position.
- Loosen the screw maintaining the guard and turn the blade guard open.
- Loosen the hexagonal nut on the blade shaft, which holds the removable outer flange.
- Remove the outer flange.
- Clean the flanges and blade shaft and inspect for wear.
- Mount the blade on the shaft ensuring that direction of rotation is correct. Wrong direction of rotation blunts the blade quickly.
- Replace outer blade flange.
- Tighten hexagonal nut with spanner supplied for this purpose.
- Close the blade guard.

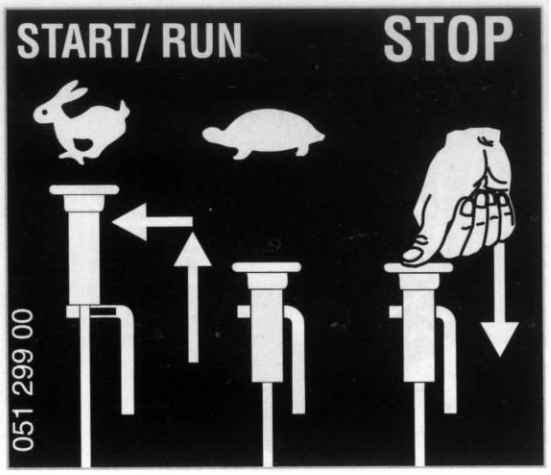
The blade bore must correspond exactly to the blade shaft. Cracked or damaged bore is dangerous for the operator and for the machine.

## *3.3 Water cooling system*

Fill the water tank with clean water.
Open water-tap at blade guard (note that handle on water-tap should be in line with water-flow).
Ensure that water is flowing freely in the circuit and delivered adequately to both sides of the blade, as insufficient water supply may result in premature failure of the diamond blade.
In case of frost, empty the water cooling system.

### *3.4 Starting the machine*

Make sure the blade is raised clear up the ground before starting the machine.




Set the speed adjuster to the STOP position, then move it to the START/RUN position, by pulling the knob and stick it on the metal part. Never use starting sprays.


Pull the starting cable out by the handle until you feel a slight resistance. Let the cable run back; in this way the entire length of the starting cable can be used to start the machine. .


Grip the handle with both hands. Commence pulling the starting cable vigorously and at an increasing speed (do not jerk it violently) until the engine starts.

If after several attempts of starting the exhaust begins to emit white smoke, move the speed adjustment lever to the STOP position and pull the starting cable out slowly 5 times. Then repeat the starting procedure.

To stop the machine, set the speed adjuster knob to the STOP position, and press it until the engine cuts out.

# 4 Transport and Storing

Take the following measures in order to transport and store the C99 securely.

## *4.1 Securing for transport*

Before transporting the machine:

- Remove the blade.
- Empty the water tank.
- Lower the handle in its fixing tube and secure it using the locking nut.
- Raise the guide-a-cut in its upright position.
- Raise the cutting head to its highest position using the hand wheel.

## *4.2 Transport procedure*

The machine can be moved on a flat surface using its wheels. Use the metal hook located over the water tank to move the machine with a crane.

## *4.3 Long period of inactivity*

If the machine is not going to be used for a long period, please take the following measures:

- Completely clean the machine.
- Loosen the drive belts.
- Grease the threaded shaft.
- Possibly change the motor oil.
- Empty the water system.

The storage site must be clean, dry and at a constant temperature.

# 5 Operating the C99

## *5.1 Site of work*

Before you start working, please check the following points:

- Remove from the site anything, which might hinder the working procedure.
- Make sure the site is sufficiently well lit.
- Make sure you have a continual adequate view of the working area so you can intervene in the working process at any time.
- Keep other staff out of the area, so you can work securely.

## *5.2 Cutting method*

In this section, you can find instructions to make a straight cut at the desired depth.

### 5.2.1 Preparing your cut

Before starting the machine,

- Draw a line on the floor over the cutting length.
- Make sure you have filled the engine tank with fuel, and the water tank with water. No petrol is supplied with the machine.
- The engine is shipped with oil. Check oil level before starting. Top up if required.
- Make sure you have mounted the correct blade as recommended by the manufacturer depending on the material to be worked, the working procedure (dry or wet cut) to be carried out, and the efficiency required.
- Make sure that the flanges securely hold the diamond blade.
- Make sure that the blade is not touching the floor before starting.
- Adjust the handle to a comfortable position.
- Roll the machine until the blade is over the line.
- Lower the guide-a-cut so it touches the line.

### 5.2.2 Cutting the floor

You can now start the engine.
To make your cut,

- Turn the depth hand wheel until the blade slightly touches the floor.
- Open water valve to control the amount of water required for the type of blade, using 15 to 25l/min for wet and 1-2l/min for dry cutting, dust control. Check for minimum water level regularly.
- To lower blade into the cut, turn hand wheel clockwise. Each turn of the hand wheel will raise or lower the blade by 10mm.
- Once the required depth of cut is reached, push the machine forward with steady and gentle pressure and follow the line with the pointer. The feed speed must be adjusted depending on the material being cut, and depth of cut.
- At the finish of the cut, raise the blade out of the cut by turning the hand wheel anti-clockwise, shut-off the water and switch off the engine.

# 6 Maintenance and service

ATTENTION: to perform maintenance on the machine, always switch it off. Always wear a face mask and safety goggles while performing the maintenance of machine.

## *6.1 Maintenance of the machine*

To ensure a long-term quality from the cutting with the C99, please follow the maintenance plan below:

| | **Regular service period** Perform at every indicated period → | After one hour of work | Begin of the day | During the changing of the tool | End of the day | Every week | After a fault | After a damage |
|---|---|---|---|---|---|---|---|---|
| Whole machine | Visual control (general aspect, water tightness) | | | | | | | |
| | Clean | | | | | | | |
| Flange and blade fixing devices | Clean | | | | | | | |
| Belts tension | Control | | | | | | | |
| Water hoses and nozzles | Clean | | | | | | | |
| Depth screw | Grease | | | | | | | |
| Engine housing | Clean | | | | | | | |
| Reachable nuts and screws | Tighten up | | | | | | | |

**Adjustment and replacement of the belts**

After one hour of work, the belts heat and stretch. Therefore, you have to re-tension them.

To adjust the belts, firstly remove the belt guard by unscrewing the 4 nuts. Loose the 4 engine bolts and shift the engine by using the two screws on the front.

To replace the belts, move the engine completely to the front. Adjust the belts and retighten them by shifting the motor to the rear.

Always use a matched set of belts. Do not replace single belts.

**Lubrication**

The C99 uses life-lubricated bearings. Therefore, you don't need to lubricate them at all.

Grease the depth screw every day.

**Cleaning of the machine**

Your machine will last longer if you clean it thoroughly after each day of work.

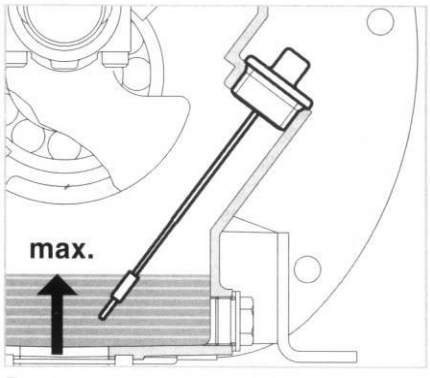
## *6.2 Maintenance of the engine*

| | **Regular service period**<br>Perform operating hour interval → | Each use | First month or 25 hours | Every 250 hours | Every 500 hours | Every 1000 hours |
|---|---|---|---|---|---|---|
| Engine oil | Check level | ■ | | | | |
| | Change | | ■ | ■ | | |
| Oil filter | Clean | | | | | ■ |
| Cooling air zone | Check-Clean | | | ■ | | |
| Air intake point | Check-Clean | ■ | | | | |
| Water trap | Check | ■ | | | | |
| Air cleaner filter | Clean | ■ | | | | |
| | Change the cartridge | | | ■ | | |
| Valve clearance | Check and adjust | | ■ | ■ | | |
| Fuel filter | Replace | | | | ■ | |
| Exhaust mesh inlet | Clean | | | ■ | | |

**Oil level check**

When checking the oil level, the engine must not be running, and should stand horizontal.

- Remove any dirt in the dipstick area.
- Check oil level at the dipstick: top up if necessary as far as the max. mark.

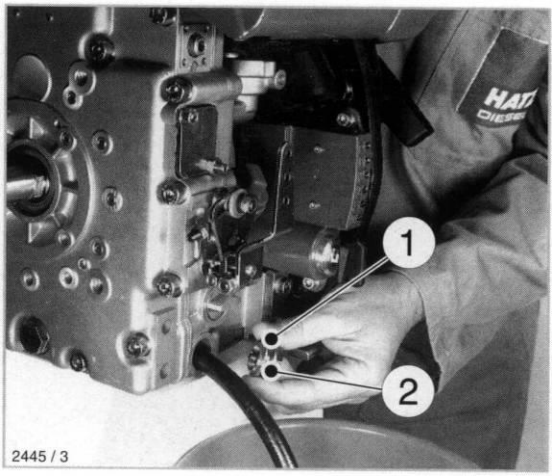



**Changing engine oil**

The engine must be stopped, and should stand horizontal. Drain the engine oil when it is warm. **CAUTION!** Risk of scalding from hot oil.

Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you to take used oil in a sealed container to your local recycling centre or service station for reclamation. Do not throw it in the trash, pour it on the ground or down in a drain.

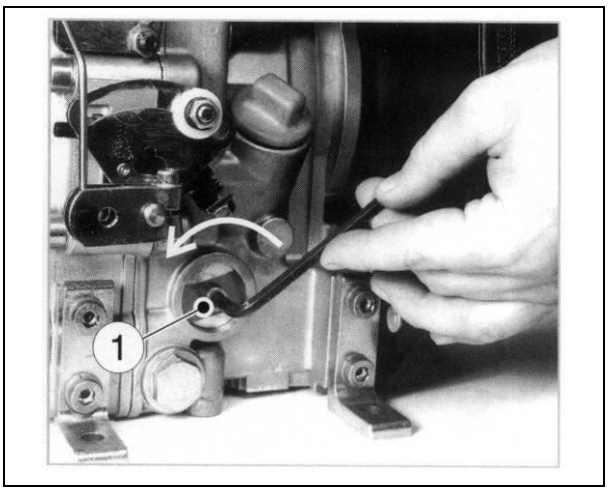
- Take out the oil drain plug « 1 » and allow the oil to drain out.



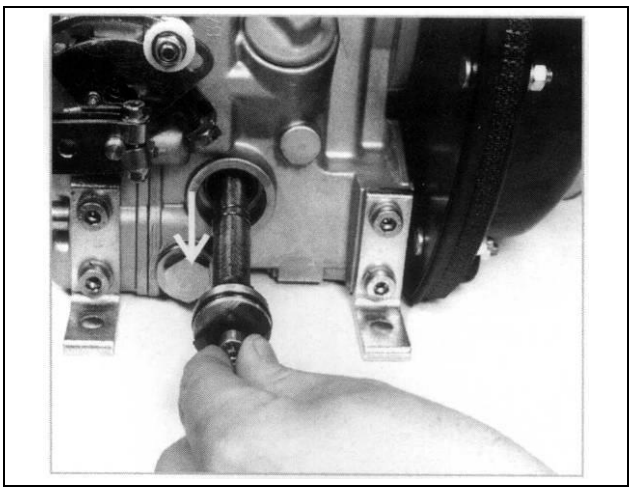
- Clean the oil drain plug « 1 » and fit a new washer « 2 » before tightening. (Tightening torque : 50 Nm)
- Add engine oil until the max. mark on the dipstick.

**Cleaning the oil filter**

The oil filter should be cleaned at the same time as the engine oil is changed, since oil escapes when the filter is removed.

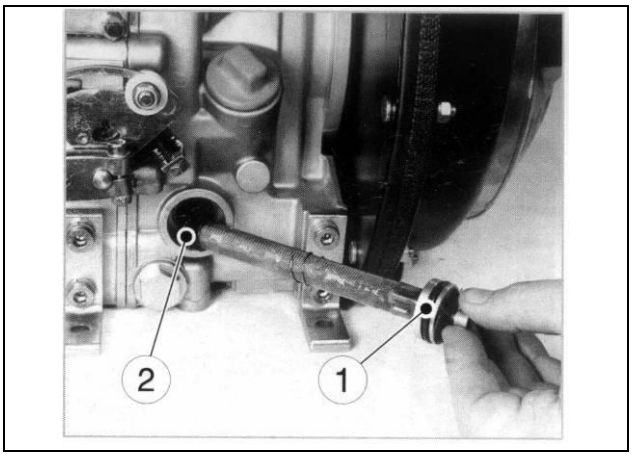



Loosen the screw « 1 » with approx. 5 rotations.



Remove the oil filter from housing.

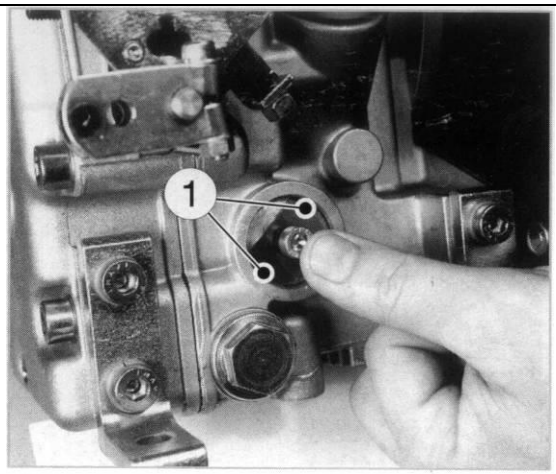

Use an air line to blow out oil filter dirt from the inside outwards.




Check the joint washer « 1 » whether it is damaged. Replace it if necessary. Check the joint washer « 2 » whether it is damaged and correctly fitted. Replace the oil filter if necessary.

Lubricate joint washer before fitting.

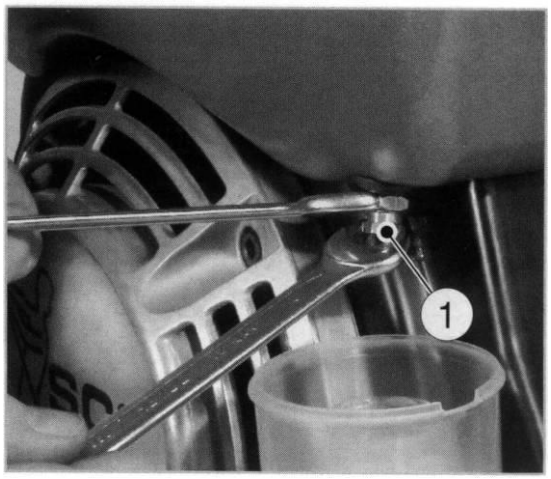
Put in the oil filter and press until the limit stop.
Check whether tension springs sit close to oil filter with both ends “1” before tightening.
Check the oil level and restore to max. level if required.




**Checking the water trap**

The intervals at which you check the water trap depend entirely on the amount of water in the fuel and the care taken when refuelling. However, you should check it at least once a week.

- Loosen the hexagonal screw “1” with approx. 3-4 rotations.
- Trap the drops which emerge in a transparent vessel. Since water has a greater specific gravity than diesel fuel, the water emerges before the diesel fuel. The two substances separate at a clearly visible line.
- As soon as diesel only emerges, retighten screw “1”.



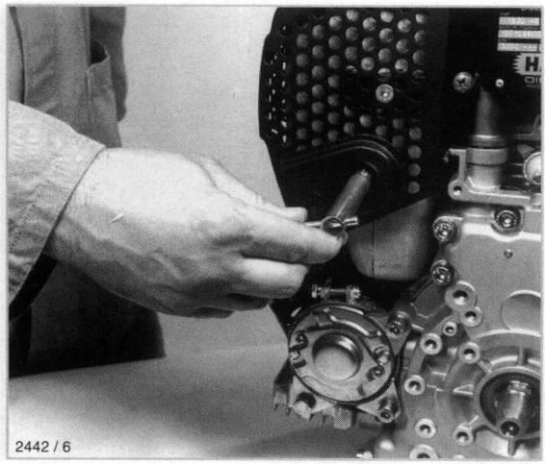

**Cleaning the air cooling zone**

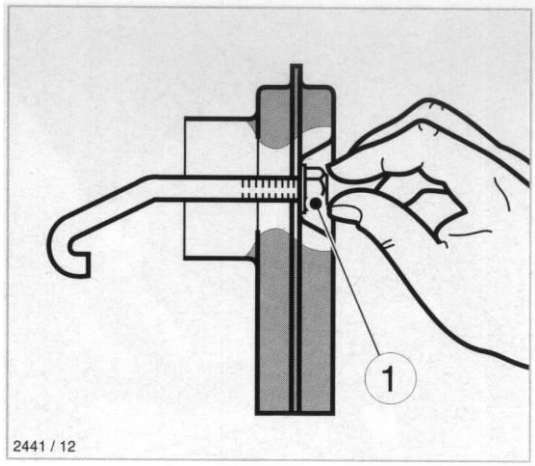
Before cleaning, the engine must be stopped and allowed to cool down. If severely contaminated, clean the cooling fans on the cylinder and cylinder head, and also the fan blades in the flywheel. If necessary, contact your local HATZ service station.

**Cleaning of the exhaust mesh inlet**

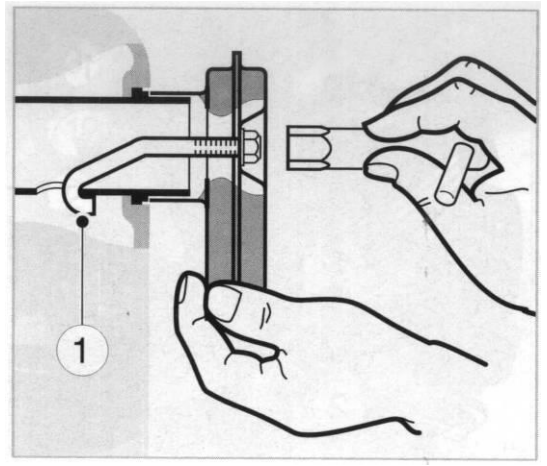
Exhaust system components will naturally be hot and must not be touched while the engine is running or until it has cooled down after being stopped.

- Unscrew the hexagonal nut and remove the exhaust mesh insert.
- Remove any deposits in the mesh insert by means of a wire brush.
- Check the exhaust mesh insert for cracks or damage and, if necessary, replace with a new one.

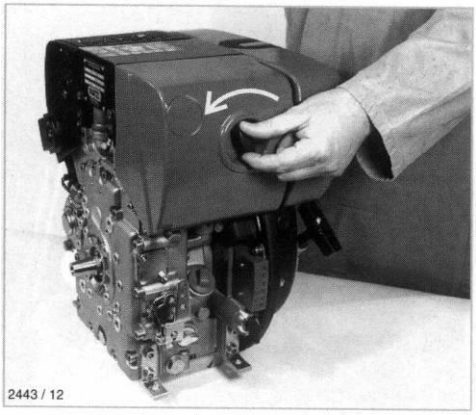


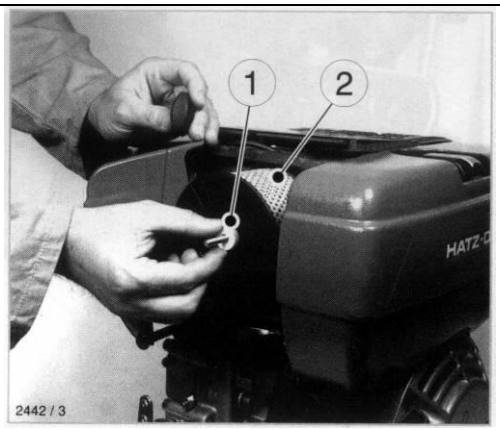




Screw on the hexagonal nut « 1 » by approx. 1 turn.




Insert exhaust screen with hoop « 1 » into hole, them pull outwards again so that the hoop is retained.
Tighten the hexagonal nut fully.

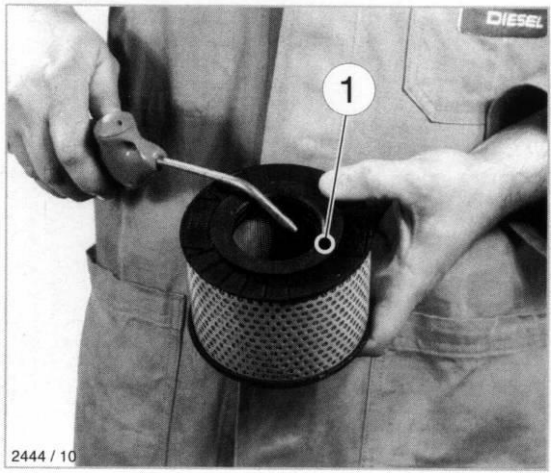



**Air cleaner maintenance**

- Remove the air cleaner cover.
- Unscrew and remove knurled nut “1” and take off air cleaner element “2”.
- Clean the filter compartment and the cover. Dirt and other foreign bodies must not be allowed to enter the engine’s air inlet points.

- Use compressed air to blow through the filter cartridge from the inside outwards until no further dirt emerges. The air pressure must not exceed 5 bar.
- Check the filter cartridge's gasket surface « 1 » for damage.
- Check the filter cartridge for cracks or any other type of damage to the paper filter by holding it inclined towards the light or by shining a light source through it.
- The slightest damage to the paper filter rules out it being used any longer.




- By wet or oily contamination, change the cartridge.
- Re-assemble the filter cartridge in the reverse order of work.

**Checking of the valve clearance and of the fuel filter**

Contact a HATZ-Service station to perform this maintenance.

# 7 Faults: causes and cures

## *7.1 Fault-finding procedures*

Should any fault occur during the use of the machine, turn it off. Let only qualified staff make any intervention other than the one described in the previous section.

## *7.2 Trouble-shooting guide*

| Trouble | Possible source | Resolution |
|---|---|---|
| Engine fires but stops again as soon as the crank is disengaged | No oil pressure | Check the oil level |
| | Cylinder head temperature too high | Check cooling air passage |
| | Stronger fault | Contact nearest engine maintenance centre |
| Engine lacks power | Tank run dry | Add fuel |
| | Air filter restricted | Clean or replace air filter |
| | Speed control lever does not remain in the selected position | Prevent speed control from moving |
| | Stronger fault | Contact nearest engine maintenance centre |
| Engine stops by itself during regular operation | Tank run dry | Add fuel |
| | Air filter restricted | Clean or replace air filter |
| | No oil pressure | Check the oil level |
| | Stronger fault | Contact nearest engine maintenance centre |

## *7.3 Customer service*

When ordering spare parts, please mention:

- The serial number (seven digits or a letter and 6 digits).
- The code of the part.
- The exact denomination.
- The number of parts required.
- The delivery address.
- Please indicate clearly the means of transportation required such as "express" or "by air". Without specific instructions, we will forward the parts through the means which seem appropriate to us and but which is not always the quickest way.

Clear instructions will avoid problems and faulty deliveries.
If not sure, please send us the defective part.
In the case of a warranty is claim, the part must always be returned for evaluation.
Spare parts for the engine can be ordered with the manufacturer of the engine or with their dealer, which is often quicker and cheaper.

This machine has been manufactured by Saint-Gobain Abrasives S.A.

190, Bd J.F.Kennedy
L- 4930 BASCHARAGE
Grand-Duché de Luxembourg.
Tel. : 00352- 50 401-1
Fax : 00352- 50 16 33
http://www.construction.norton.eu
e-mail: sales.nlx@saint-gobain.com

Guarantee can be claimed and technical support obtained from your local distributor where machines, spare parts and consumables can be ordered as well:

**Benelux and France**:
From Saint-Gobain Abrasives
in the Grand-Duché de Luxembourg
Free telephone numbers:
Belgium : 0 800 18951
France: 0 800 90 69 03
Holland: 0 8000 22 02 70
e-mail: sales.nlx@saint-gobain.com

**Germany**
Saint-Gobain Abrasives GmbH
Birkenweg 45-49,
D-50389 WESSELING
Tel : (02236) 8911 0
Fax : (02236) 8911 30
e-mail: sales.ngg@saint-gobain.com

**Spain**
Saint-Gobain Abrasivos S.A.
Ctra Guipuzcoa km7,5
31195 BERRIOPLANO (Navarra)
Tel: 0034 948 30 3000
Fax: 0034 948 30 6042
**e-mail :**Comercial.sga-apa@saint-gobain.com

**Hungary**
Saint-Gobain Abrasives KFT.
Budafoki u. 111
H-1117 BUDAPEST
Tel: ++36 1 371 2250
Fax: ++36 1 371 2255
e-mail: nortonbp@axelero.hu

**United Kingdom**
Saint-Gobain Abrasives Ltd.
Doxey road
Stafford
ST 16 1EA
Tel : 0845 602 6222
Free Fax : 0800 622 385
e-mail : nortondiamonduk@saint-gobain.com

**Italy**
Saint-Gobain Abrasivi S.p.A.
Via per Cesano Boscone, 4
I-20094 CORSICO-MILANO
Tel: 0039 02 44 851
Fax: 0039 0245 101238
e-mail: Norton.edilizia@saint-gobain.com

**Austria**
Saint-Gobain Abrasives GmbH
Telsenberggasse 37,
A-5020 SALZBURG
Tel: 0043 662 43 00 76 77
Fax: 0043 662 43 01 75
e-mail: office@sga.net

**Poland**
Saint-Gobain Diamond Products Sp.zO.O.
AL. Krakowska 110/114
PL-00-971 WARSZAWA
Tel: 0048 22 868 29 36
Tel/Fax: 0048 22 868 29 27
e-mail: norton-diamond@wp.pl

**Czech Republic**
Norton Diamantove Nastroje Sro
Vinohrdadska 184
CS-13000 PRAHA 3
Tel: 0042 0267 13 20 21
Fax: 0042 0267 13 20 21
e-mail: norton.diamonds@komerce.cz

# 8 Appendix

## *8.1 Spare parts list*

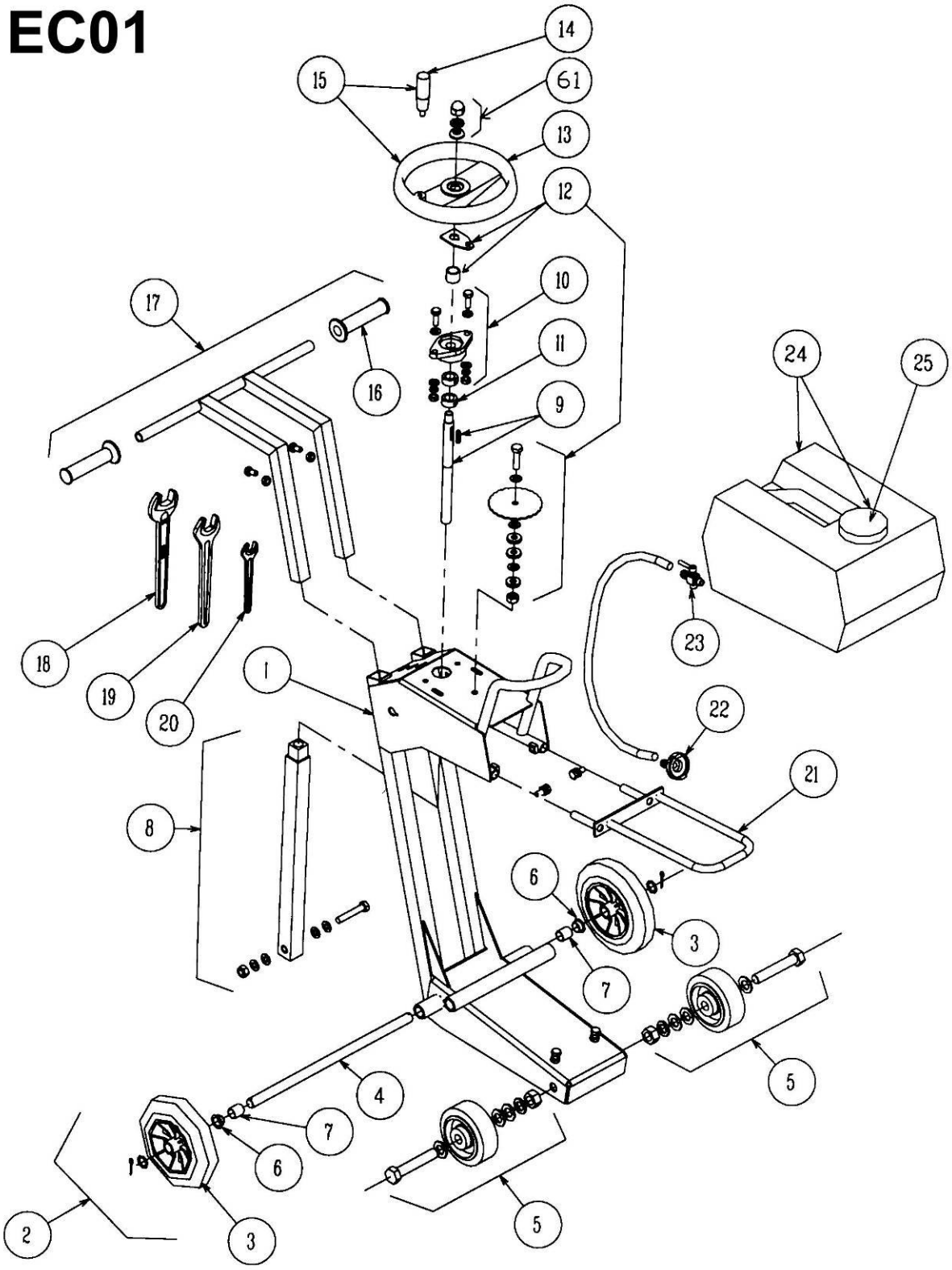
| POS | PAGE | CODE | DESIGNATION | TYPE (*) | REMARKS |
|---|---|---|---|---|---|
| 1 | EC01 | 00310006549 | Basic Frame | S | |
| 2 | EC01 | 00310006550 | Rear axle kit | S | |
| 3 | EC01 | 00310005495 | Rear Wheel | W | |
| 4 | EC01 | 00310006551 | Rear axle | S | |
| 5 | EC01 | 00310006552 | Front wheel complete | W | |
| 6 | EC01 | 00310005502 | Bushing Iglidur | W | |
| 7 | EC01 | 00310005129 | Bushing Iglidur | W | |
| 8 | EC01 | 00310006553 | Screw Feed. Spindle | S | |
| 9 | EC01 | 00310006554 | Raise-lower screw | S | |
| 10 | EC01 | 00310004907 | Bearing + Screw | W | |
| 11 | EC01 | 00310006555 | Stop ring A20 | S | |
| 12 | EC01 | 00310006556 | Depth indicator cpl. | S | |
| 13 | EC01 | 00310004840 | Hand wheel + nut | S | |
| 14 | EC01 | 00310004476 | Handle | S | |
| 15 | EC01 | 00310002163 | Hand wheel + Handle | S | |
| 16 | EC01 | 00310004190 | Handle Grip 1/2" | S | |
| 17 | EC01 | 00310006557 | Manoeuvring bar cpl. | S | |
| 18 | EC01 | 00310004177 | Wrench 36mm | S | |
| 19 | EC01 | 00310004306 | Wrench 30mm | S | |
| 20 | EC01 | 00310004229 | Wrench 17mm | S | |
| 21 | EC01 | 00310006558 | Support Water Tank | S | |
| 22 | EC01 | 00310003978 | Connector for Hose | W | |
| 23 | EC01 | 00310004262 | Water cock | W | |
| 24 | EC01 | 00310006559 | Water tank cpl. | S | |
| 25 | EC01 | 00310006560 | Stopper f. water tank | S | |
| 26 | EC02 | 00310006561 | Blade shaft assy. | S | |
| 27 | EC02 | 00310004269 | Nut 7/8" L. blade shaft | S | |
| 28 | EC02 | 00310006562 | Loose collar 108 | S | |
| 29 | EC02 | 00310006563 | Bushing 2 blades | S | |
| 30 | EC02 | 00310005219 | Inside collar 108 | S | |
| 31 | EC02 | 00310004295 | Bearing for blade shaft | W | |
| **POS** | **PAGE** | **CODE** | **DESIGNATION** | **TYPE (*)** | **REMARKS** |

| | | | | | |
|---|---|---|---|---|---|
| 32 | EC02 | 00310004506 | Key for inside collar | S | |
| 33 | EC02 | 00310006564 | Blade shaft assy. | S | |
| 34 | EC02 | 00310004835 | Blade shaft pulley | S | |
| 35 | EC02 | 00310005200 | Guide-a-cut cpl. | S | |
| 36 | EC02 | 00310046746 | Blade guard 450 assy | S | |
| 37 | EC02 | 00310004181 | Blade guard nut M16 | S | |
| 38 | EC02 | 00310004255 | Blade guard axle | S | |
| 39 | EC02 | 00310004233 | Waterdistributor-Y | W | |
| 40 | EC02 | 00310004426 | Water supply tape 1/2" | **W** | |
| 41 | EC02 | 00310004081 | Hose coupling 1/2" | W | |
| 42 | EC02 | 00310006566 | Blade splash guard | W | |
| 43 | EC02 | 00310006567 | Motor frame | S | |
| 44 | EC02 | 00310006568 | Axle motor frame cpl | S | |
| 45 | EC02 | 00310006569 | Axle motor frame | S | |
| 46 | EC02 | 00310006570 | Brake complete | S | |
| 47 | EC02 | 00310002336 | Motor 1B30 Hatz | S | |
| 48 | EC02 | 00310005510 | Motor pulley cpl. | S | |
| 49 | EC02 | 00310006572 | Belt s XPZ 860 LW | W | |
| 50 | EC02 | 00310006574 | Belt guard cpl. | S | |
| 51 | EC02 | 00310006577 | Screw for motor | S | |
| 58 | EC02 | 00310002304 | Motor stop switch | W | |
| 59 | EC02 | 00310002346 | Water hose (set of 2) | W | |
| 60 | EC02 | 00310006886 | Nipple ½”M-1/4”M | S | |
| 61 | EC01 | 00310004966 | Nut hand wheel | S | |
| 62 | EC02 | 00310007048 | Dover pin (set of 10) | S | |

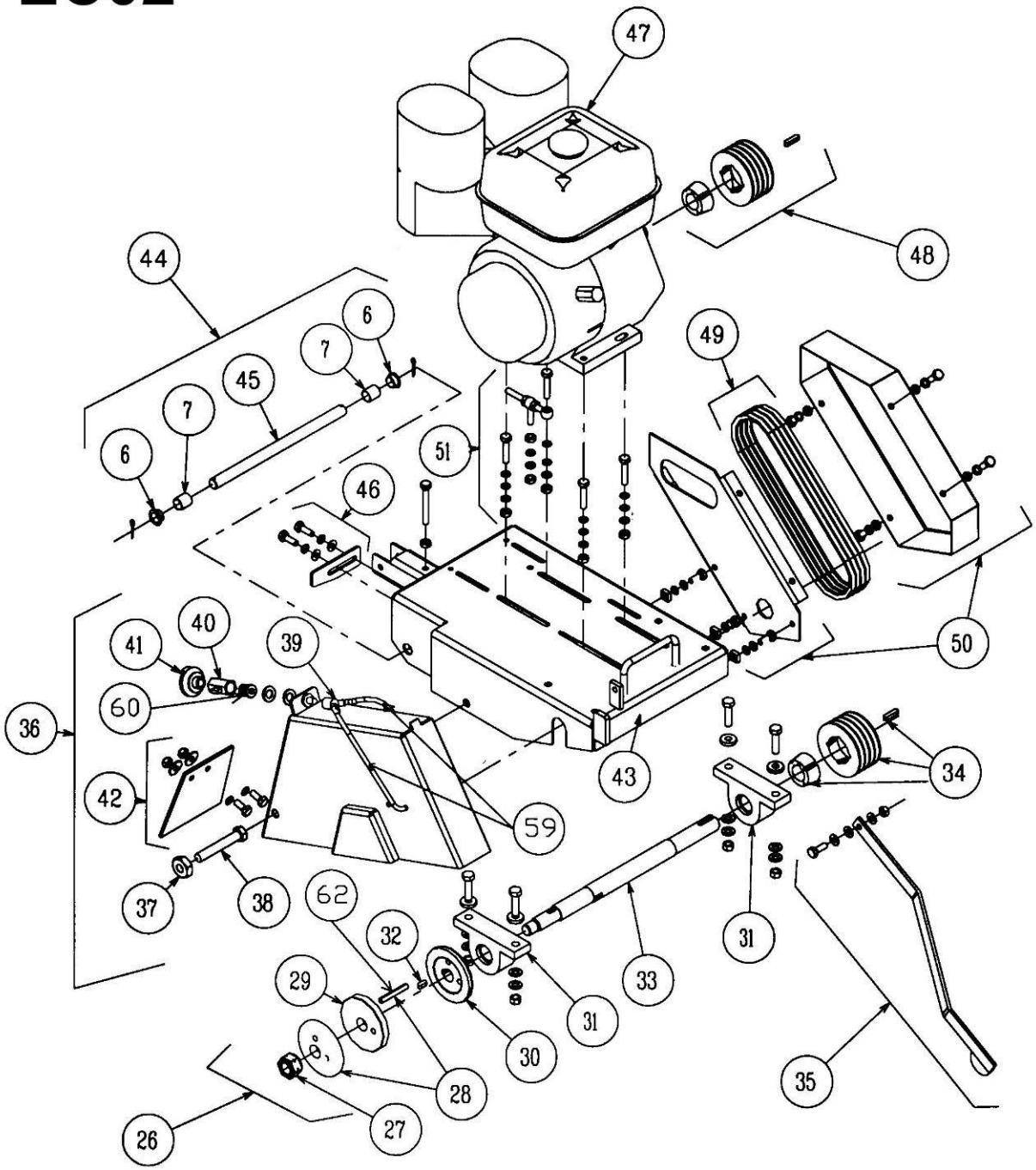
(*): S = Spare part, W = Wear part

Wear parts are worn out through normal use of the machine. The wear period depends a lot on the intensity of use of the machine. Wear parts must be serviced, used and eventually changed following the indications of the manufacturer. Any wear due to normal use of the machine will not be considered as a case of warranty. Genuine Clipper replacement parts should always be used.

### *8.2 Exploded part drawings*



# EC02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